

# Product Datasheet

## Ki67/MKI67 Antibody (8D5) - BSA Free NBP2-22112

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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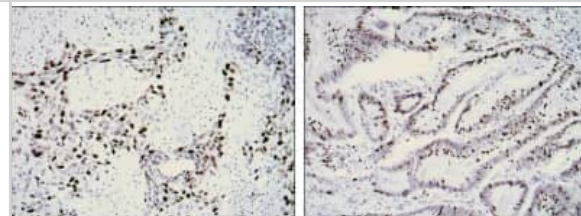
**NBP2-22112**

Ki67/MKI67 Antibody (8D5) - BSA Free

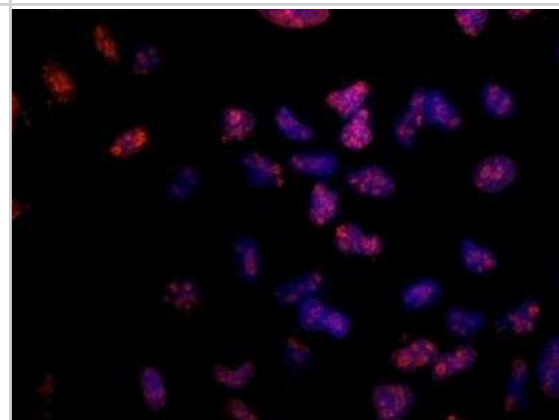
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	8D5
<b>Preservative</b>	0.03% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Ammonium sulfate precipitation
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	359 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Knockout (KO) Validated Mouse Ki67/MKI67 Antibody (8D5) - BSA Free (NBP2-22112) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-Ki67/MKI67 Antibody: Cited in 33 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	4288
<b>Gene Symbol</b>	MKI67
<b>Species</b>	Human, Mouse, Rabbit
<b>Reactivity Notes</b>	Use in Rabbit reported in scientific literature (PMID:33691202). Human reactivity reported in the scientific literature (PMID: 23777661). Rat reactivity reported in scientific literature (PMID: 23447644). Porcine reactivity reported in scientific literature (PMID: 27046485).
<b>Marker</b>	Proliferation Marker
<b>Immunogen</b>	The immunogen for this KI67/MKI67 Antibody (8D5) was made using a synthetic peptide from the internal region of Human KI67/MKI67 (amino acids: 1100-1113, 1222-1235 and 3 more spots); sequence: CEDLAGFKELFQTPG [Uniprot: P46013].
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:500-1:2000, ELISA 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100. Use reported by customer review, Immunohistochemistry-Paraffin 1:200-1:1000, Immunohistochemistry-Frozen reported in scientific literature (PMID 33131911), Knockout Validated

## Images

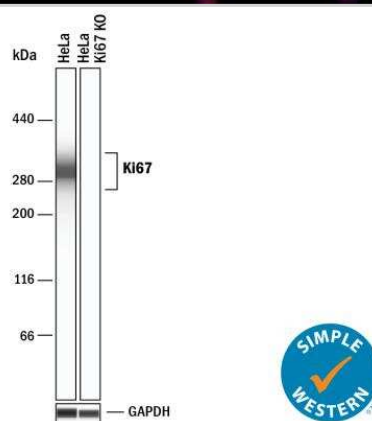
Immunohistochemistry-Paraffin: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Analysis of paraffin-embedded lung cancer (left) and rectal cancer (right) using Ki67 mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - A549 human alveolar adenocarcinoma cell line, fixation with PFA 4%, blocking (PBS, 1% BSA, 0.1% Tween), primary antibody: 1:100 in blocking buffer, O/N. Secondary antibody: AlexaFluor 594, 1 hour, RT. Counterstained with DAPI. Imaged with a fluorescence microscope. This image was submitted via customer review.



Simple Western: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Detection of Ki67/MKI67 by Simple Western™. Simple Western lane view shows lysates of HeLa parental cell line and Ki67 knockout (KO) HeLa cell line. A specific band was detected for Ki67/MKI67 at approximately 317 kDa (as indicated) in the parental cell line, but is not detectable in the knockout HeLa cell line using 1:100 of Mouse Anti-Ki67/MKI67 Monoclonal Antibody (Catalog # NBP2-22112). GAPDH is shown as a loading control. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



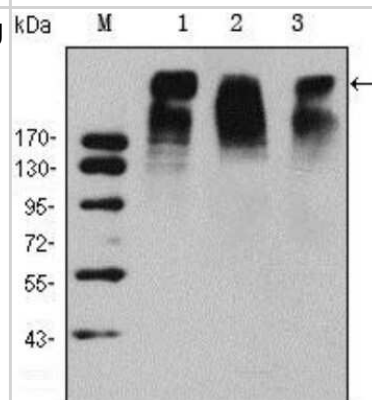
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti- NBP2-22112 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti- NBP2-22112 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



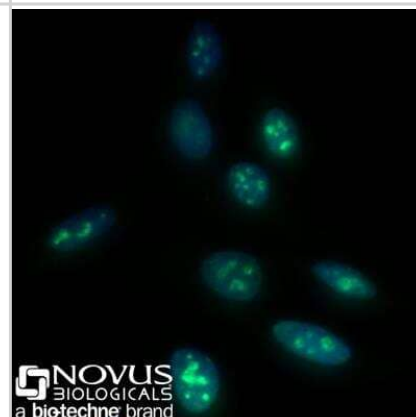
Western Blot: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Analysis using Ki67 mouse mAb against Hela (1), MCF-7 (2) and Raji (3) cell lysate.



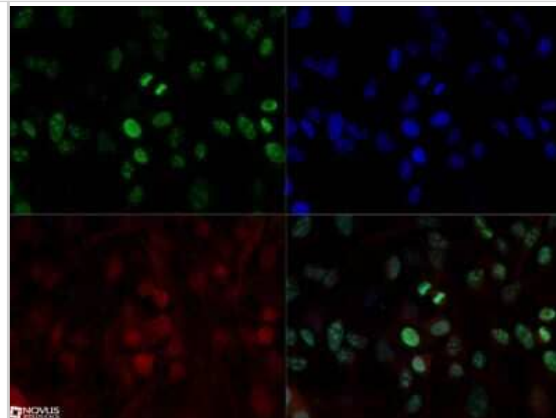
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - U-251 MG cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-Ki67/MKI67 Antibody [8D5] conjugated to FITC (NBP2-22112F) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



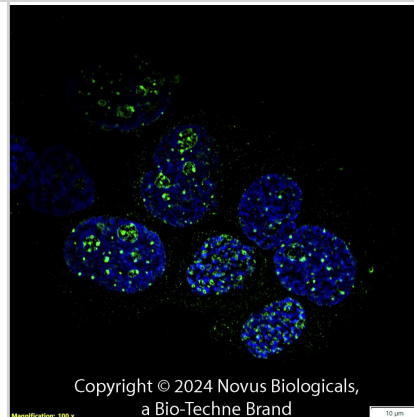
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton X-100. The cells were incubated with anti-Ki-67 (8D5) conjugated to Alexa Fluor 488 [NBP2-22112AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



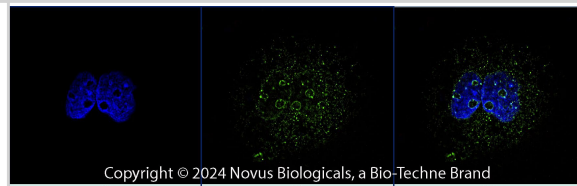
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Ki67 antibody was tested at 1:100 in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). Image objective 40x.



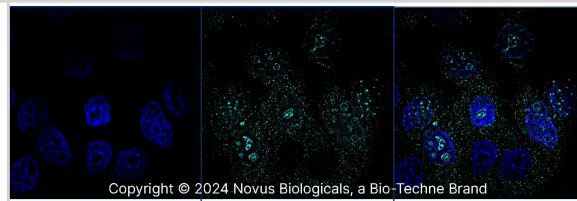
Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP2-22112AF488) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to FITC (Catalog # NBP2-22112F) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.

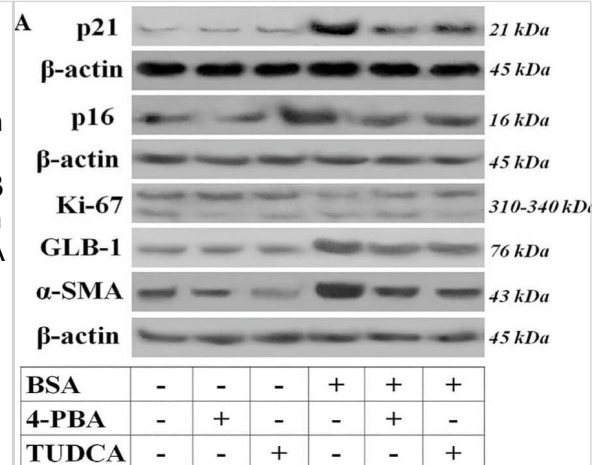


Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-22112AF647) (light blue) at 2 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.

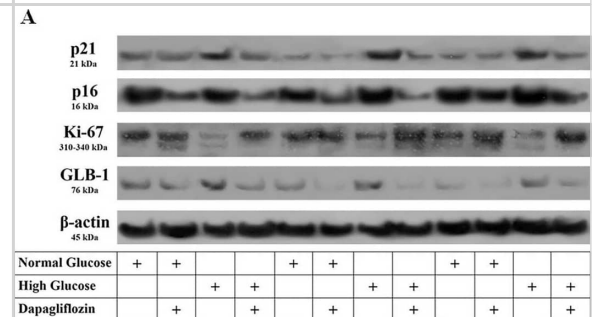




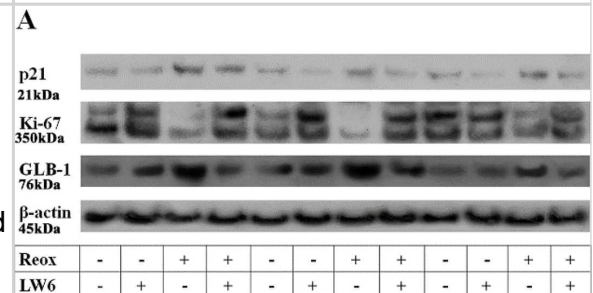
Albumin overload induces cellular senescence and EMT. Panel (A) depicts the results of one out of three performed experiments. Albumin overload increased the expression of the cell cycle arrest inducers p21 (B) and p16 (C). In addition, it decreased the level of the cell proliferation marker Ki-67 (D) and enhanced the cellular senescence marker GLB-1 (E). RPTECs exposed to high albumin concentration overproduced IL-1 $\beta$  (F) and TGF- $\beta$ 1 (G). Exposure of RPTECs to high albumin concentration resulted in EMT as the level of  $\alpha$ -SMA increased (H). TUDCA and 4-PBA ameliorated but did not eliminate all the changes above. \* p < 0.05 vs. control; # p < 0.05 vs. RPTECs treated with 4-PBA; ^ p < 0.05 vs. RPTECs treated with TUDCA; + p < 0.05 vs. RPTECs exposed to BSA; & p < 0.05 vs. RPTECs exposed to BSA and 4-PBA; ! p < 0.05 vs. RPTECs exposed to BSA and TUDCA. 4-PBA, 4-Phenylbutyric acid;  $\alpha$ -smooth muscle actin; BSA, bovine serum albumin; GLB-1,  $\beta$ -galactosidase; IL-1 $\beta$ , interleukin-1 $\beta$ ; Ki-67, marker of proliferation Ki-67; p16, p16 INK4A; p21, p21 Waf1/Cip1; TGF- $\beta$ 1, transforming growth factor- $\beta$ 1; TUDCA, tauroursodeoxycholic acid. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37298591>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



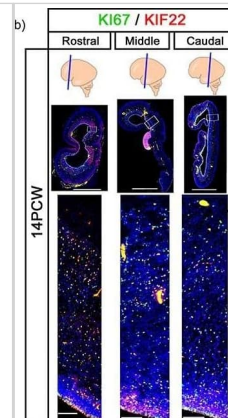
The effect of high glucose and dapagliflozin on cell cycle inhibitors p21 and p16, cell proliferation, and senescence. High glucose upregulated p21, while dapagliflozin normalized the p21 levels (A,B). Dapagliflozin downregulated p16 expression under normal and high-glucose conditions (A,C). High glucose decreased Ki-67, whereas dapagliflozin restored Ki-67 levels (A,D). High glucose increased GLB-1 expression, whereas dapagliflozin decreased GLB-1 under normal and high-glucose conditions (A,E). \* p < 0.05 vs. control; # p < 0.05 vs. RPTECs treated with 15 ng/mL dapagliflozin; ^ p < 0.05 vs. RPTECs in high glucose; + p < 0.05 vs. RPTECs in high glucose and treated with 15 ng/mL dapagliflozin. GLB-1, beta-galactosidase; Ki-67, marker of proliferation Ki-67; p16, p16 INK4A, p21, p21 Waf1/Cip1. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36555751>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



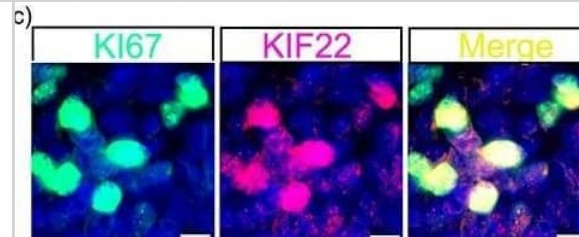
Anoxia-reoxygenation induces senescence phenotype, while LW6 prevents it. Anoxia-reoxygenation increases the p21 level, whereas the MDH-2 inhibitor LW6 prevents reoxygenation-induced p21 upregulation (A,B). Reoxygenation downregulated Ki-67, while LW6 prevented reoxygenation-induced Ki-67 reduction (A,C). Under reoxygenation, GLB-1 increased, but LW6 reversed the above change (A,D). RPTECs under reoxygenation produced more IL-1 $\beta$ , whereas LW6 downregulated reoxygenation-induced IL-1 $\beta$  overproduction (E). \* p < 0.05 vs. control; # p < 0.05 vs. LW6-treated RPTECs under normoxia; + p < 0.05 vs. RPTECs under reoxygenation, ^ p < 0.05 vs. LW6-treated RPTECs under reoxygenation. GLB-1, beta-galactosidase; IL-1 $\beta$ , interleukin-1 $\beta$ . Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36291624>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunofluorescence of KIF22 and KI67 proteins in the cortex. (a) KIF22 and KI67 at 12 PCW, low magnification scale bars = 4 mm, high magnification scale bars = 100  $\mu$ m. (b) KIF22 and KI67 at 14 PCW, low magnification scale bars = 4 mm, high magnification scale bars = 100  $\mu$ m. (c) high magnification of KI67/KIF22 expressing cells. Scale bars = 10  $\mu$ m. (d) Percentage of cells expressing KIF22, KI67, or both at 12 PCW. (e) Percentage of cells expressing KIF22, KI67, or both at 14 PCW. (f) Combined data of percentage of cells expressing KIF22, KI67, or both. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33825894>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunofluorescence of KIF22 and KI67 proteins in the cortex. (a) KIF22 and KI67 at 12 PCW, low magnification scale bars = 4 mm, high magnification scale bars = 100  $\mu$ m. (b) KIF22 and KI67 at 14 PCW, low magnification scale bars = 4 mm, high magnification scale bars = 100  $\mu$ m. (c) high magnification of KI67/KIF22 expressing cells. Scale bars = 10  $\mu$ m. (d) Percentage of cells expressing KIF22, KI67, or both at 12 PCW. (e) Percentage of cells expressing KIF22, KI67, or both at 14 PCW. (f) Combined data of percentage of cells expressing KIF22, KI67, or both. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33825894>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Taibi A, Perrin M, Yardin C et al. Comparison of Three Nebulizer Nozzles Used During Pressurized Intraperitoneal Aerosol Chemotherapy Procedures in a Rabbit Model with Peritoneal Surface Malignancies: NOMOS Project. *Annals of surgical oncology* 2025-08-05 [PMID: 40764855]

Eleftheriadis T, Pissas G, Golfinopoulos S et al. Routes of Albumin Overload Toxicity in Renal Tubular Epithelial Cells *International journal of molecular sciences* 2023-06-01 [PMID: 37298591] (Immunohistochemistry-Paraffin, Mouse)

Eleftheriadis T, Pissas G, Golfinopoulos S et al. Inhibition of Malate Dehydrogenase-2 Protects Renal Tubular Epithelial Cells from Anoxia-Reoxygenation-Induced Death or Senescence *Biomolecules* 2022-10-03 [PMID: 36291624] (Immunohistochemistry-Paraffin, Mouse)

Fu B, Lou Y, Lu X et al. tRF-1:30-Gly-CCC-3 inhibits thyroid cancer via binding to PC and modulating metabolic reprogramming *Life Sci Alliance* 2023-12-11 [PMID: 38081642]

Zhang X, Qin Y, Chen X et al. Clinical Value of Human Endogenous Retrovirus-H Long Terminal Repeat Associating 2 (HHLA2) in Small Cell Lung Cancer *Technol Cancer Res Treat* 2024-04-13 [PMID: 38613340]

Pissas G, Tziastoudi M, Divani M et al. Malate dehydrogenase-2 inhibition shields renal tubular epithelial cells from anoxia-reoxygenation injury by reducing reactive oxygen species *J Biochem Mol Toxicol* 2024-09-17 [PMID: 39287333]

Jun Seob Lee, So Young Lee, Hee Seung Chin, Na Rae Kim, Ji Won Jung Microstructure of the corneal endothelial transition zone in different laboratory animals *Molecular Vision* 2024-01-01 [PMID: 38601017]

Meier Bürgisser G, Heuberger DM, Rieber J et al. Delineation of the healthy rabbit tongue by immunohistochemistry - A technical note *Acta histochemica* 2023-11-30 [PMID: 38039795] (IHC-Fr, IHC-P, Rabbit)

Celikten M, Sahin H, Senturk GE et al. The Effect of Platelet-Rich Fibrin, Platelet-Rich Plasma, and Concentrated Growth Factor in the Repair of Full Thickness Rotator Cuff Tears *Journal of shoulder and elbow surgery* 2023-10-26 [PMID: 37898418] (IHC-P, Rabbit)

Meier Bürgisser G, Heuberger DM, Giovanoli P et al. Delineation of the healthy rabbit tonsil by immunohistochemistry - A short communication *Acta histochemica* 2023-10-01 [PMID: 37804548] (Immunohistochemistry, Rabbit)

Hong Y, Chen B, Wang C et al. circPPP2R4 promotes colorectal cancer progression and reduces ROS production through the miR-646/FOXK1 axis *Molecular carcinogenesis* 2023-09-26 [PMID: 37750597]

Amleh A, Chen HP, Watad L et al. Arginine depletion attenuates renal cystogenesis in tuberous sclerosis complex model *Cell reports. Medicine* 2023-06-20 [PMID: 37290438] (IHC-P, Mouse)

More publications at <http://www.novusbio.com/NBP2-22112>



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General: novus@novusbio.com

### **Products Related to NBP2-22112**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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