

# Product Datasheet

## Rab5a Antibody - BSA Free

### NB120-13253

Unit Size: 0.1 mg

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

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**NB120-13253**

Rab5a Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 50% Glycerol

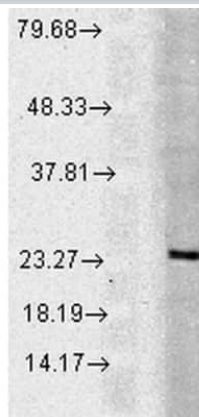
Product Description	
Description	Novus Biologicals Rabbit Rab5a Antibody - BSA Free (NB120-13253) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Rab5a Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5868
Gene Symbol	RAB5A
Species	Human, Mouse, Rat, Bovine, Monkey
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 23954637).
Marker	Early Endosome Marker
Specificity/Sensitivity	Detects approx 26kDa.
Immunogen	Human Rab5 synthetic peptide conjugated to KLH; identical to dog Rab5 sequence over the residues

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:100, Immunocytochemistry/Immunofluorescence 1:80, Immunoprecipitation, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry Free-Floating
Application Notes	1 ul/ml of Rab5 Antibody was sufficient for detection of Rab5 in 15 ug of HeLa lysate by ECL immunoblot analysis using Donkey anti-rabbit IgG:HRP as the secondary Antibody. Use in Immunoprecipitation reported in scientific literature (PMID 23954637). Use in Immunohistochemistry free floating reported in scientific literature (PMID: 31618685).

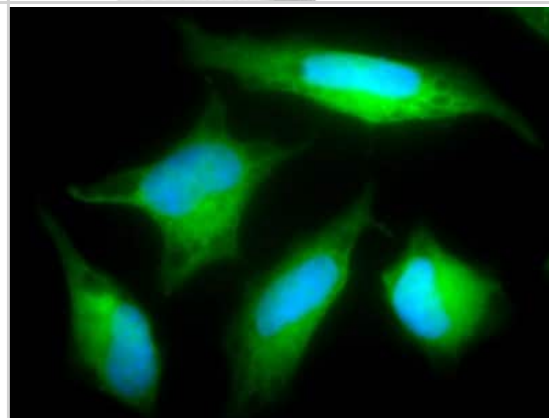


## Images

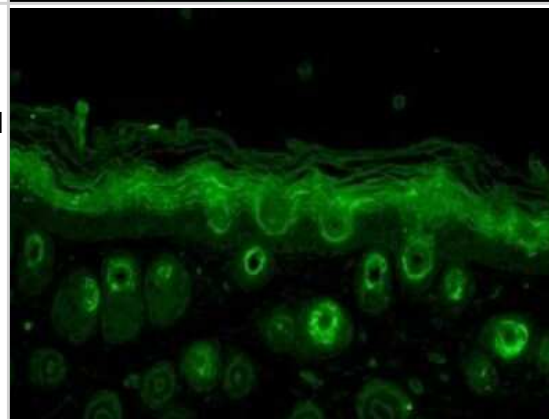
**Western Blot: Rab5a Antibody [NB120-13253]** - Western blot analysis of Human Cell line lysates showing detection of Rab5a protein using Rabbit Anti-Rab5a Polyclonal Antibody (NB120-13253). Load: 15 ug protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-Rab5a Polyclonal Antibody (NB120-13253) at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.



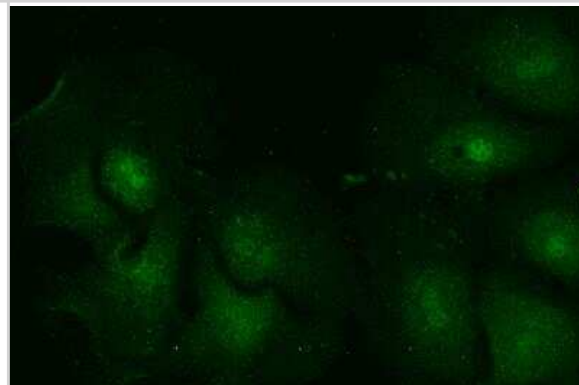
**Immunocytochemistry/Immunofluorescence: Rab5a Antibody [NB120-13253]** - Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Rab5 Polyclonal Antibody at 1:80 for 12 hours at 4C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Nucleus. Magnification: 100x.



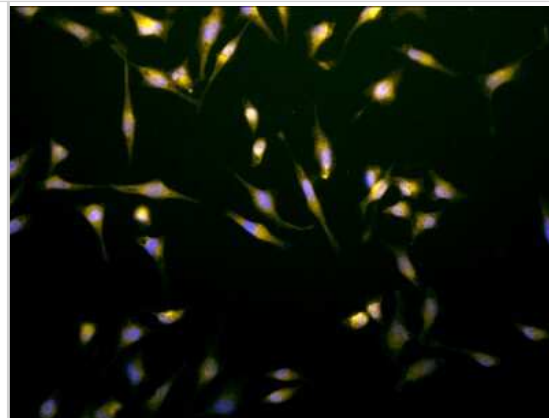
**Immunohistochemistry: Rab5a Antibody [NB120-13253]** - Immunohistochemistry analysis using Rabbit Anti-Rab5a Polyclonal Antibody (NB120-13253). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Rab5a Polyclonal Antibody (NB120-13253) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Cytoplasm.



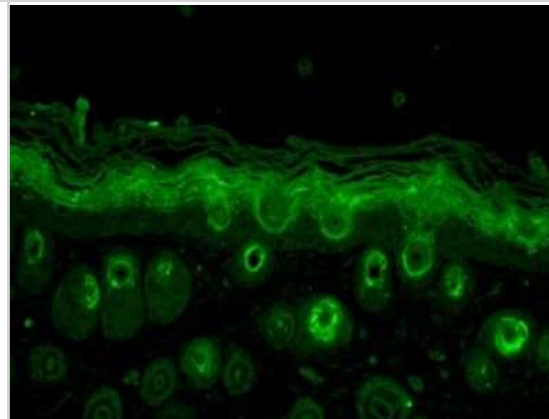
**Immunocytochemistry/Immunofluorescence: Rab5a Antibody [NB120-13253]** - IF staining of Rab5a in hepatocytes. Image from verified customer review.



Immunocytochemistry/Immunofluorescence: Rab5a Antibody [NB120-13253] - Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Rab5 Polyclonal Antibody at 1:80 for 12 hours at 4C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Nucleus. Magnification: 20x.



Immunohistochemistry-Paraffin: Rab5a Antibody [NB120-13253] - analysis using Rabbit Anti-Rab5 Polyclonal Antibody . Tissue: backskin. Species: Mouse. Fixation: Bouins Fixative Solution. Primary Antibody: Rabbit Anti-Rab5 Polyclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Cytoplasm.



## Publications

Choi GE, Park JY, Park MR et al. Glucocorticoid Enhances Presenilin1-Dependent A $\beta$  Production at Er's Mitochondrial-Associated Membrane by Downregulating Rer1 in Neuronal Cells Redox biology 2023-06-16 [PMID: 37494768] (Functional)

Choi GE, Park JY, Park MR et al. Glucocorticoid Enhances Presenilin1-Dependent A $\beta$  Production at Er's Mitochondrial-Associated Membrane by Downregulating Rer1 in Neuronal Cells Redox biology 2023-06-16 [PMID: 37494768]

Chae CW, Yoon JH, Lim JR et al. TRIM16-mediated lysophagy suppresses high-glucose-accumulated neuronal A $\beta$  Autophagy 2023-06-25 [PMID: 37357416]

Chae, CW;Choi, GE;Jung, YH;Lim, JR;Cho, JH;Yoon, JH;Han, HJ; High glucose-mediated VPS26a downregulation dysregulates neuronal amyloid precursor protein processing and tau phosphorylation British journal of pharmacology [PMID: 35297035]

Zhou B, Zhang F, Zhang W et al. Propofol Improves Survival In A Murine Model of Sepsis Via Inhibiting Rab5a - Mediated Intracellular Trafficking of TLR4 Research Square 2021-05-07

Chae CW, Lee HJ, Choi GE et al. High glucose-mediated PICALM and mTORC1 modulate processing of amyloid precursor protein via endosomal abnormalities Br. J. Pharmacol. 2020-05-20 [PMID: 32436237]

Fred SM, Laukkanen L, Brunello CA et al. Pharmacologically diverse antidepressants facilitate TRKB receptor activation by disrupting its interaction with the endocytic adaptor complex AP-2 J. Biol. Chem. 2019-10-20 [PMID: 31631060] (ICC/IF, Mouse)

Rocha EM, De Miranda BR, Castro S et al. LRRK2 inhibition prevents endolysosomal deficits seen in human Parkinson's disease Neurobiol. Dis. 2019-10-13 [PMID: 31618685] (IHC-FrFI, Rat)

Pang J, Peng H, Wang S et al. Mitochondrial ALDH2 protects against lipopolysaccharide-induced myocardial contractile dysfunction by suppression of ER stress and autophagy Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease 2019-04-01 [PMID: 30946956] (WB, Mouse)

Hagiwara M, Komatsu T, Sugiura SS et al. POT1b regulates phagocytosis and NO production by modulating activity of the small GTPase Rab5. Biochem Biophys Res Commun. 2013-08-13 [PMID: 23954637] (WB, IP, Mouse)

Rho JH, Lampe PD. High-throughput screening for native autoantigen-autoantibody complexes using antibody microarrays J Proteome Res. 2013-05-03 [PMID: 23541305] (Human)

### Details:

A novel method using antibody microarrays is used to detect autoantibody-antigen complexes that can potentially be useful for detection and characterization of diseases.

Ali BR et al. J Cell Sci 117: 6401-6412. 2004-01-01 [PMID: 15561774]

More publications at <http://www.novusbio.com/NB120-13253>





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### **Products Related to NB120-13253**

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NB820-59657	Mouse Brain Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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