

Product Datasheet

p23/PTGES3 Antibody (JJ3)

NB300-576

Unit Size: 100uL

Store at -20C. Avoid freeze-thaw cycles.

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NB300-576

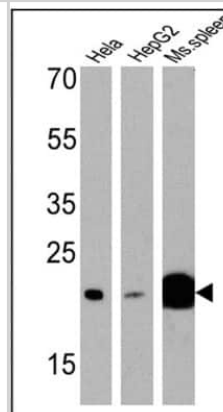
p23/PTGES3 Antibody (JJ3)

Product Information	
Unit Size	100uL
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JJ3
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Product Description	
Description	Novus Biologicals Mouse p23/PTGES3 Antibody (JJ3) (NB300-576) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-p23/PTGES3 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	10728
Gene Symbol	PTGES3
Species	Human, Mouse, Rat, Chicken, Guinea Pig, Primate, Rabbit, Xenopus
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 16085934). Primate reactivity reported in scientific literature (PMID: 11553639). Clawed Frog reactivity reported in scientific literature (PMID: 18364744). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	p23 (JJ3)
Immunogen	Recombinant human p23 protein.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:100, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:2000, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:1000
Application Notes	WB: Detects an approx. 23 kDa protein representing p23 from rabbit reticulocyte lysate. May be useful in IP for both free and complexed p23.

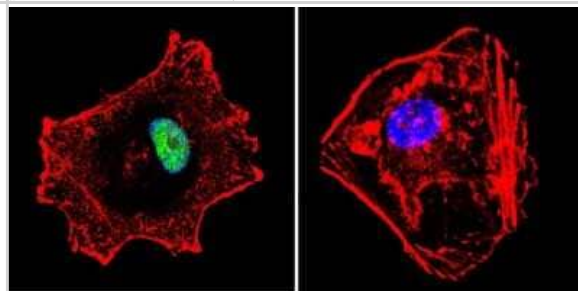


Images

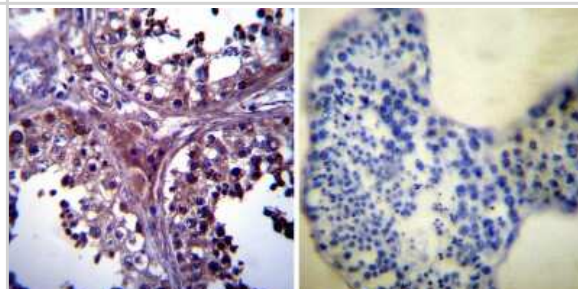
Western Blot: p23/PTGES3 Antibody (JJ3) [NB300-576] - Analysis of 25 ug of HeLa (Lane 1), HepG2 (Lane 2), and mouse spleen cell lysates (Lane 3) and a molecular weight protein ladder.



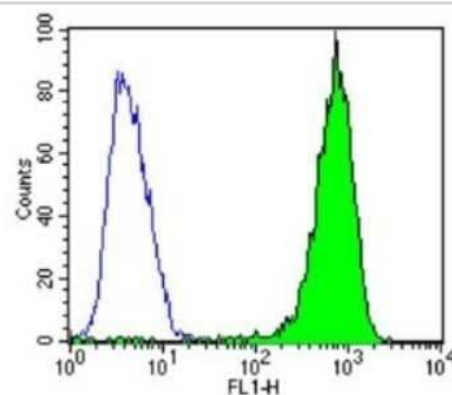
Immunocytochemistry/Immunofluorescence: p23/PTGES3 Antibody (JJ3) [NB300-576] - p23 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing p23 at a dilution of 1:500 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



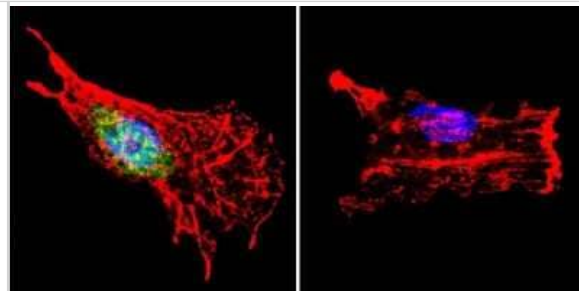
Immunohistochemistry-Paraffin: p23/PTGES3 Antibody (JJ3) [NB300-576] - Normal biopsies of deparaffinized Human testis tissue.



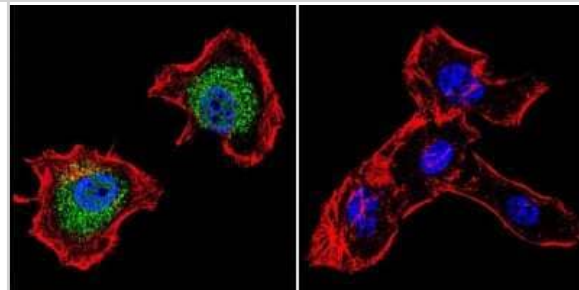
Flow Cytometry: p23/PTGES3 Antibody (JJ3) [NB300-576] - Analysis of 3T3 cells compared to an isotype control (blue).



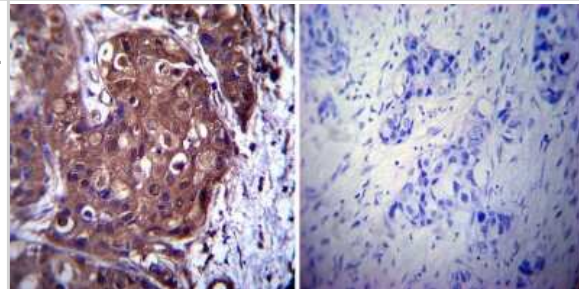
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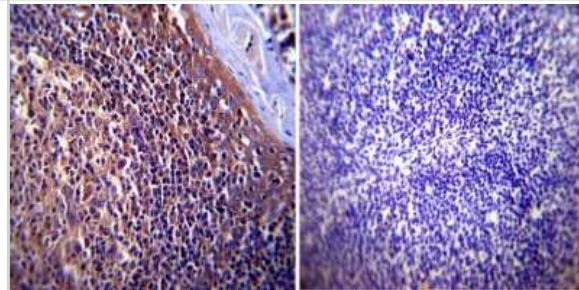
Immunocytochemistry/Immunofluorescence: p23/PTGES3 Antibody (JJ3) [NB300-576] - p23 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing p23 at a dilution of 1:500 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



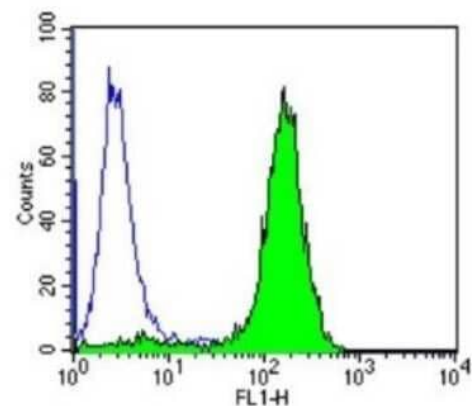
Immunohistochemistry-Paraffin: p23/PTGES3 Antibody (JJ3) [NB300-576] - Cancer biopsies of deparaffinized Human breast carcinoma tissue.



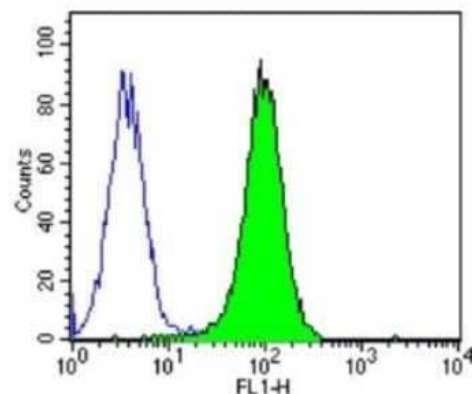
Immunohistochemistry-Paraffin: p23/PTGES3 Antibody (JJ3) [NB300-576] - Normal biopsies of deparaffinized Human tonsil tissue.



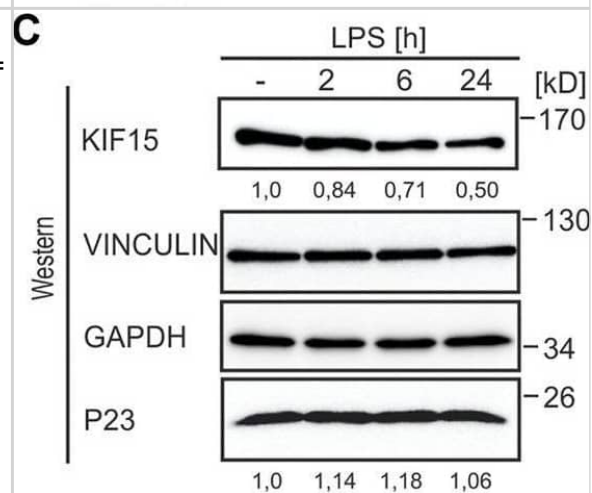
Flow Cytometry: p23/PTGES3 Antibody (JJ3) [NB300-576] - Analysis of Jurkat cells compared to an isotype control (blue).



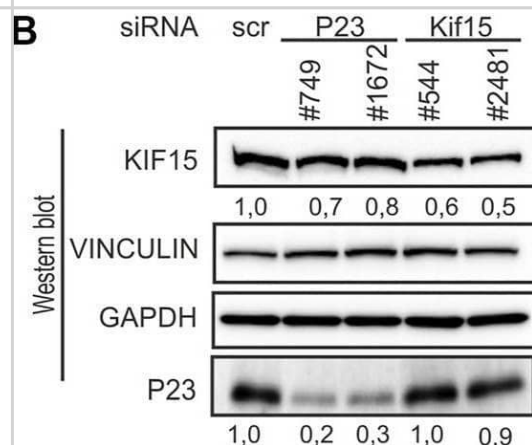
Flow Cytometry: p23/PTGES3 Antibody (JJ3) [NB300-576] - Analysis of Hela cells compared to an isotype control (blue).



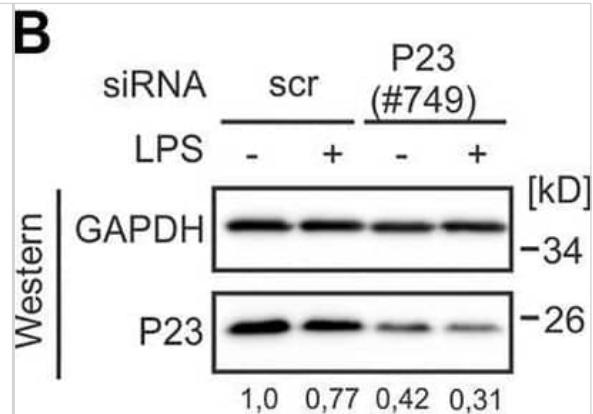
P23 and KIF15 expression in untreated and LPS-induced macrophages. LPS induction of RAW 264.7 macrophages (10 ng/ml, 2, 6 and 24 h) (n = 4). (A) QPCR analysis of mRNA levels as indicated, normalized to Ndufv1 mRNA (n = 4). (B) Inhibition of transcription in untreated cells and after 2 and 6 h LPS induction as indicated (n = 3). Kif15 and Actb mRNA were monitored by qPCR, normalized to exogenously added Luc mRNA. (C) Representative Western blot with specific antibodies as indicated, KIF15 was normalized to VINCULIN and P23 to GAPDH. (D) Upper panel: Schematic representation of the experimental design. Lower panel: RAW 264.7 cell migration in response to LPS (n = 3). Statistical analysis was performed with one-way ANOVA, significance levels defined as ** = p < 0.01 and *** = p < 0.001. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34179071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



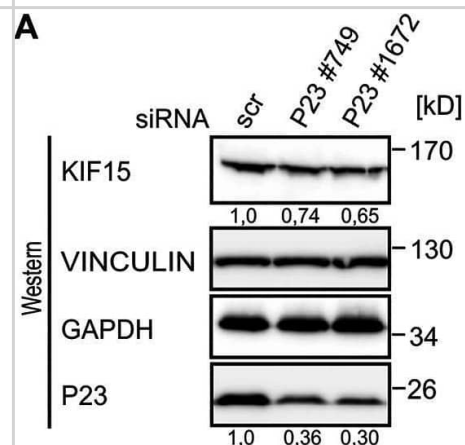
P23 or KIF15 depletion enhances untreated macrophage migration. (A) Schematic representation of the experimental design. RAW 264.7 cells were transfected with control (scr), P23 (#749, #1672) or Kif15 (#544, #2481) specific siRNAs and treated as depicted (n = 3). (B) Representative Western blot with antibodies as indicated. KIF15 was normalized to VINCULIN and P23 to GAPDH. (C) Left panel: Analysis of migrating cells by microscopy. Right panel: Quantification of migrating cells (n = 3). (D) Morphology of migrated cells (DAPI staining and bright-field microscopy). Statistical analysis was performed with one-way ANOVA, significance levels defined as *** = p < 0.001. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34179071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



P23 depletion enhances phagocytosis by LPS-induced RAW 264.7 macrophages. (A) Schematic representation of the experimental design. (B) Cells were transfected with control (scr) or P23-specific siRNAs (#749) and stimulated with LPS (100 ng/ml) (n = 3). Representative Western blot of cytosolic RAW 264.7 cell extracts with antibodies as indicated, P23 was normalized to GAPDH. (C) Following siRNA transfection and LPS treatment, cells were incubated with Fluoresbrite® carboxylate labeled latex beads and analyzed by IF microscopy, as indicated. (D) The phagocytosis index was calculated as 103 beads ingested by 100 cells. Statistical analysis was performed with one-way ANOVA, significance levels defined as *** = p < 0.001. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34179071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



P23 depletion from untreated macrophages results in Kif15 mRNA and protein decline. (A) RAW 264.7 cells were transfected with control (scr) or P23 siRNAs (#749, #1672) (n = 3). Representative Western blot with antibodies as indicated. KIF15 was normalized to VINCULIN and P23 to GAPDH. (B) Analysis of mRNA levels by qPCR, normalized to Ndufv1 mRNA (n = 3). (C) Inhibition of transcription in untreated cells, as indicated (n = 3). Kif15 and Actb mRNAs were monitored by qPCR, normalized to exogenously added Luc mRNA. Statistical analysis was performed with one-way ANOVA, significance levels defined as ** = p < 0.01 and *** = p < 0.001. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34179071>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

He X, Smith SE, Chen S et al. Tumor-initiating stem cell shapes its microenvironment into an immunosuppressive barrier and pro-tumorigenic niche *Cell reports* 2021-09-07 [PMID: 34496236]

de Vries S, Benes V, Naarmann-de Vries IS et al. P23 Acts as Functional RBP in the Macrophage Inflammation Response *Frontiers in molecular biosciences* 2021-06-11 [PMID: 34179071] (IP, Mouse)

Vilas A, Yuste-Checa P, Gallego D et Al. Proteostasis regulators as potential rescuers of PMM2 activity *Biochim Biophys Acta Mol Basis Dis* 2020-03-25 [PMID: 3222543] (WB, Human)

Lackie RE, Razzaq AR, Farhan SMK et al. Modulation of hippocampal neuronal resilience during aging by the Hsp70/Hsp90 co-chaperone ST11 *J. Neurochem.* 2019-09-28 [PMID: 31562773] (WB, Mouse)

Garcia-Belinchon M, Sanchez-Osuna M, Martinez-Escardo L et al. An Early and Robust Activation of Caspases Heads Cells for a Regulated Form of Necrotic-like Cell Death *J. Biol. Chem.* 2015-06-29 [PMID: 26124276] (WB, Human)

Sanchez-Osuna M, Garcia-Belinchon M, Iglesias-Guimaraes V et al. Caspase-Activated DNase is necessary and sufficient for oligonucleosomal DNA breakdown, but not for chromatin disassembly during caspase-dependent apoptosis of LN-18 glioblastoma cells. *J. Biol. Chem.* 2014-05-17 [PMID: 24838313] (WB, Human)

Casanelles E, Gozzelino R, Marques-Fernandez F et al. NF-kappaB activation fails to protect cells to TNFalpha-induced apoptosis in the absence of Bcl-xL, but not Mcl-1, Bcl-2 or Bcl-w. *Biochim Biophys Acta* 2013-01-28 [PMID: 23369735] (WB, Human)

Iglesias-Guimaraes V, Gil-Guinon E, Gabernet G et al. Apoptotic DNA Degradation into Oligonucleosomal Fragments, but Not Apoptotic Nuclear Morphology, Relies on a Cytosolic Pool of DFF40/CAD Endonuclease. *J Biol Chem* 2012-01-17 [PMID: 22253444] (WB, Human)



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NBL1-14937	p23/PTGES3 Overexpression Lysate
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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