Product Datasheet

PDE4B Antibody (OTI1D12)
NBP2-01171

Unit Size: 0.1 ml

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

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NBP2-01171

PDE4B Antibody (OTI1D12)

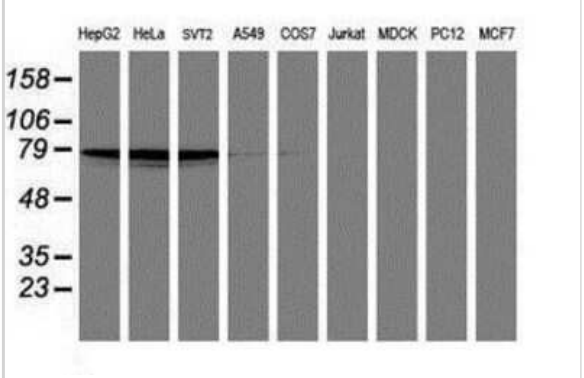
Product Information	
Unit Size	0.1 ml
Concentration	0.62 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI1D12
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	83.2 kDa

Product Description	
Description	Novus Biologicals Mouse PDE4B Antibody (OTI1D12) (NBP2-01171) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-PDE4B Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5142
Gene Symbol	PDE4B
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Full length human recombinant protein of human PDE4B(NP_002591) produced in HEK293T cell.

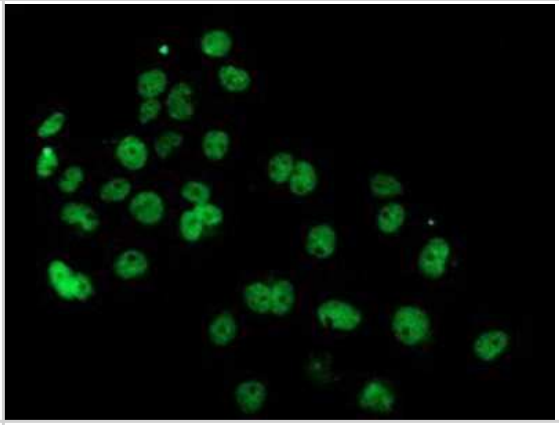
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-2000, Flow Cytometry 1:100, Immunohistochemistry 1:150, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:150

Images

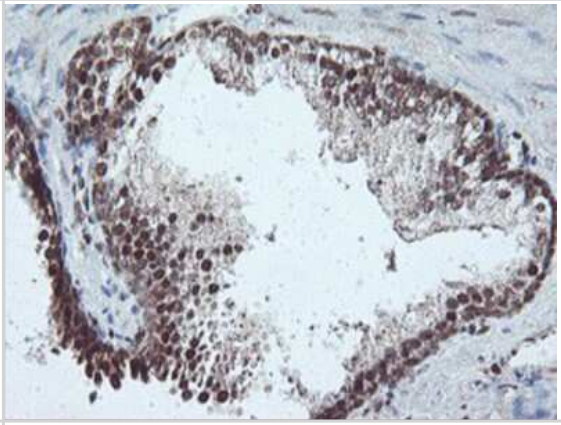
Western Blot: PDE4B Antibody (1D12) [NBP2-01171] Analysis of extracts (35ug) from 9 different cell lines by using anti-PDE4B monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



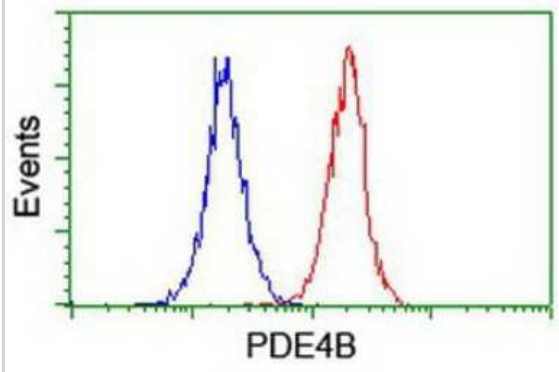
Immunocytochemistry/Immunofluorescence: PDE4B Antibody (1D12) [NBP2-01171] - Staining of COS7 cells transiently transfected by pCMV6 -ENTRY PDE4B.



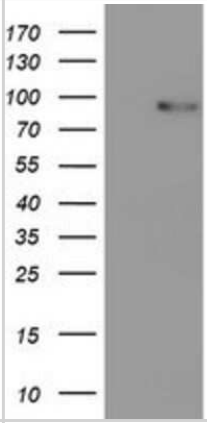
Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Human prostate tissue using anti-PDE4B mouse monoclonal antibody.



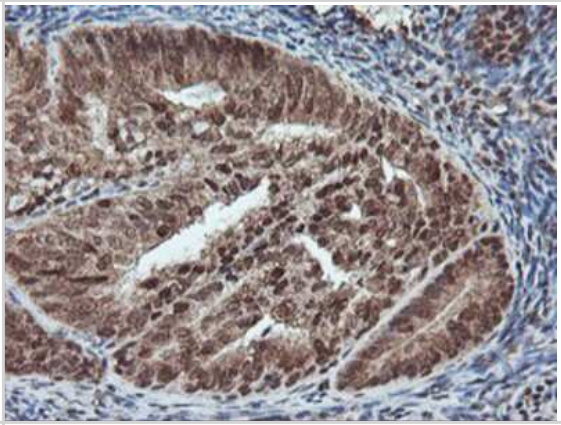
Flow Cytometry: PDE4B Antibody (1D12) [NBP2-01171] - Analysis of Jurkat cells, using anti-PDE4B antibody, (Red), compared to a nonspecific negative control antibody (Blue).



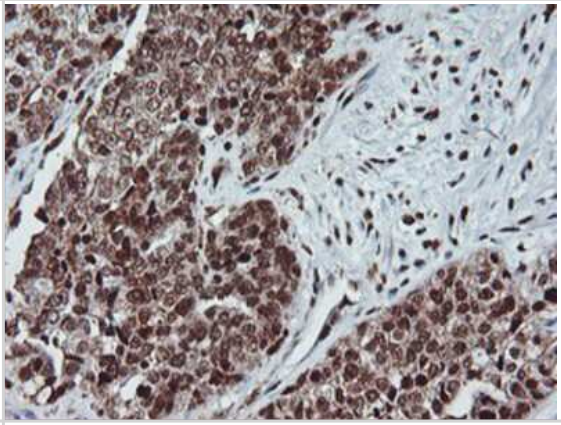
Western Blot: PDE4B Antibody (1D12) [NBP2-01171] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDE4B (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDE4B.



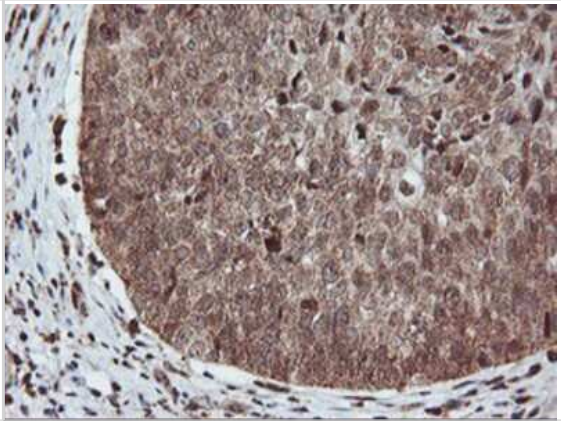
Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PDE4B mouse monoclonal antibody.

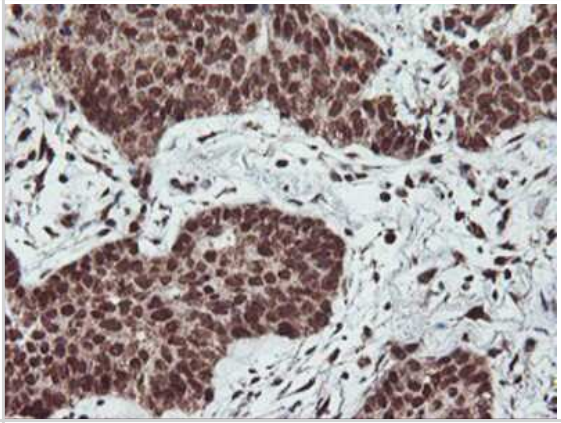
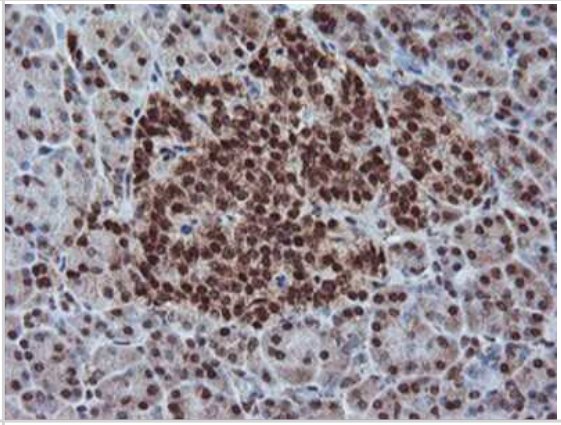
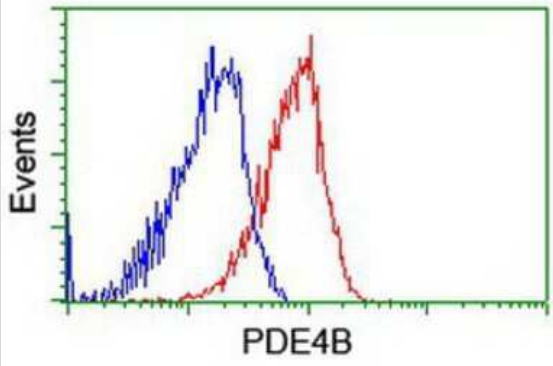


Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PDE4B mouse monoclonal antibody.

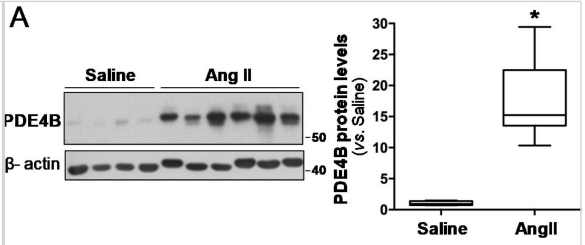


Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-PDE4B mouse monoclonal antibody.



Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Carcinoma of Human lung tissue using anti-PDE4B mouse monoclonal antibody.	
Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-PDE4B mouse monoclonal antibody.	
Immunohistochemistry-Paraffin: PDE4B Antibody (1D12) [NBP2-01171] - Staining of paraffin-embedded Human pancreas tissue using anti-PDE4B mouse monoclonal antibody.	
Flow Cytometry: PDE4B Antibody (1D12) [NBP2-01171] - Analysis of Hela cells, using anti-PDE4B antibody, (Red), compared to a nonspecific negative control antibody (Blue).	

PDE4B expression is up-regulated in the abdominal aortas from AngII-infused ApoE−/− mice. ApoE−/− mice were infused with AngII (1000 ng/kg/min) or saline solution for 28 days. (A) The PDE4B expression in abdominal aortas from these animals was assessed by Western blot. The levels of β-actin are shown as a loading control. The boxplot on the right shows the quantification of the PDE4B protein levels. The box extends from the 25th to the 75th percentile, and the median is indicated by a horizontal line. The whiskers represent the maximum and minimum values (Saline, n = 4; Ang II n = 6); * p < 0.01 vs. saline. (B) Representative PDE4B immunostaining in these samples. The arrowheads indicate the PD4B-positive cells in aneurysmal tissues. Bars: 20 um. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/33809405), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Varona S, Puertas L, GalAn M et al. Rolipram Prevents the Formation of Abdominal Aortic Aneurysm (AAA) in Mice: PDE4B as a Target in AAA Antioxidants 2021-03-16 [PMID: 33809405] (IHC-P, WB, Human)

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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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