

Product Datasheet

PDE4B Antibody NB100-2562

Unit Size: 0.1 mg

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

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NB100-2562

PDE4B Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	83 kDa

Product Description	
Host	Goat
Gene ID	5142
Gene Symbol	PDE4B
Species	Human, Mouse
Specificity/Sensitivity	This antibody is expected to recognise all reported isoforms (NP_002591.2, NP_001032418.1, NP_001032416.1 and NP_001032417.1).
Immunogen	Peptide with sequence C-DIDIATEDKSPVDT corresponding to C-Terminus according to NP_002591.2, NP_001032418.1, NP_001032416.1, NP_001032417.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.5 - 10 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml, Peptide ELISA Detection limit 1:8000
Application Notes	WB: Approx. 85 kDa band observed in mouse brain lysates (calculated MW of 83.3 kDa band according to human NP_002591.2 and 82.1 kDa band according to mouse NP_062814.2). In transfected HEK293 transiently expressing human PDE4B a band of approx. 85 kDa is observed. This band is not observed in the non-transfected HEK293. IHC: Paraffin embedded Human Prostate.



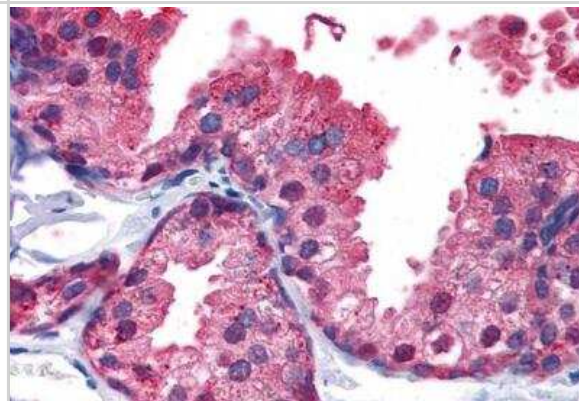
Images

Western Blot: PDE4B Antibody [NB100-2562] - Staining of Mouse Brain Lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

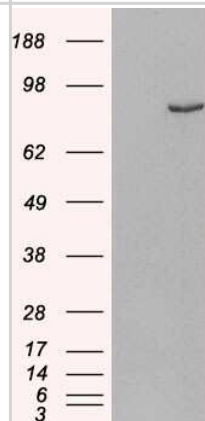


250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

Immunohistochemistry-Paraffin: PDE4B Antibody [NB100-2562] - (5ug/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: PDE4B Antibody [NB100-2562] - HEK293 overexpressing Human PDE4B and probed with (mock transfection in first lane).



188 —
98 —
62 —
49 —
38 —
28 —
17 —
14 —
6 —
3 —

Publications

Ma J, Kumar V, Mahato RI. Nanoparticle Delivery of Novel PDE4B Inhibitor for the Treatment of Alcoholic Liver Disease *Pharmaceutics* 2022-09-07 [PMID: 36145643]

Bhat A, Bishir M, Pandi-Perumal SR et al. Roflumilast, a Phosphodiesterase-4 Inhibitor, Ameliorates Sleep Deprivation-Induced Cognitive Dysfunction in C57BL/6J Mice *ACS chemical neuroscience* 2022-06-23 [PMID: 35736514]

Millar JK, Pickard BS, Mackie S et al. DISC1 and PDE4B are interacting genetic factors in schizophrenia that regulate cAMP signaling. *Science* 2005-11-18 [PMID: 16293762]



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Products Related to NB100-2562

NB820-59657	Mouse Brain Whole Tissue Lysate (Adult Whole Normal)
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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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