

# Product Datasheet

## PDE4B Antibody NB100-2562

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 3

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**NB100-2562**

## PDE4B Antibody

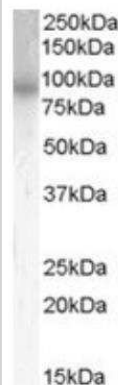
Product Information	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH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

Product Description	
<b>Description</b>	Novus Biologicals Goat PDE4B Antibody (NB100-2562) is a polyclonal antibody validated for use in IHC, WB and ELISA. Anti-PDE4B Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	5142
<b>Gene Symbol</b>	PDE4B
<b>Species</b>	Human, Mouse
<b>Specificity/Sensitivity</b>	This antibody is expected to recognise all reported isoforms (NP_002591.2, NP_001032418.1, NP_001032416.1 and NP_001032417.1).
<b>Immunogen</b>	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	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 0.5 - 10 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml, Peptide ELISA Detection limit 1:8000
<b>Application Notes</b>	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.

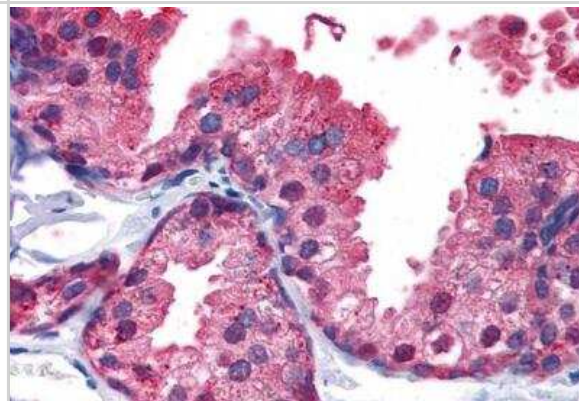
## Images

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

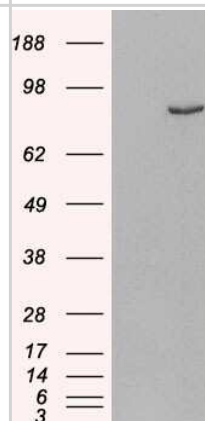


250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

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]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-2562**

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NB820-59657	Mouse Brain Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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

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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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