

# Product Datasheet

## Phosphodiesterase 4D Antibody NB100-2462

Unit Size: 0.1 mg

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

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### Publications: 2

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**NB100-2462**

## Phosphodiesterase 4D Antibody

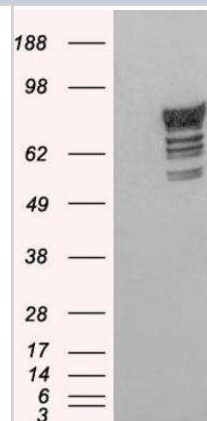
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Description	Novus Biologicals Goat Phosphodiesterase 4D Antibody (NB100-2462) is a polyclonal antibody validated for use in IHC, WB and ELISA. Anti-Phosphodiesterase 4D Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	5144
Gene Symbol	PDE4D
Species	Human, Mouse
Specificity/Sensitivity	This antibody is expected to recognize all reported isoforms.
Immunogen	Peptide with sequence QPEACVIDDRSPDT corresponding to C-Terminus according to NP_001184151.1, NP_001184150.1, NP_006194.2, NP_001098101.1, NP_001184152.1, NP_001159371.1.

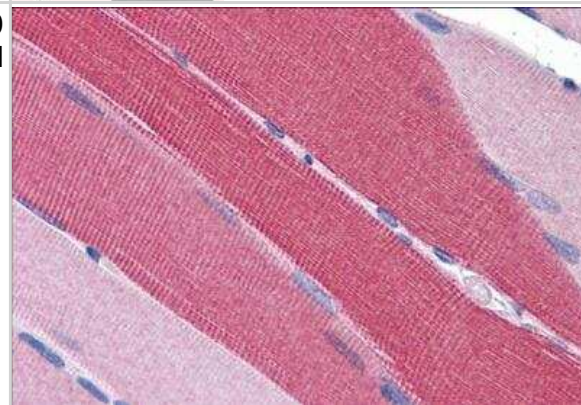
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/ml, ELISA 1:200, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml, Peptide ELISA Detection limit 1:128000
Application Notes	ELISA successful usage is reported in scientific literature (PMID: 19939455). WB: Approx. 70+80+90 kDa band bands observed in lysates of A549. In transfected COS1 transiently expressing PDE4D1 and PDE4D3 bands of approx. 68 kDa and 95 kDa are observed. These bands are not observed in the untransfected COS1. In transfected HEK293 transiently expressing PDE4D2 multi bands from approx. 55 kDa to 80 kDa are observed. These bands are not observed in the non-transfected HEK293. Calculated MW of 91.1 kDa band according to PDE4D1 (NP_001098101.1), 76.5 kDa band according to PDE4D2 (NP_006194.2) and 84.7 kDa band according to PDE4D3 (NP_001159371.1). IHC: Paraffin embedded Human Skeletal Muscle and Heart.

## Images

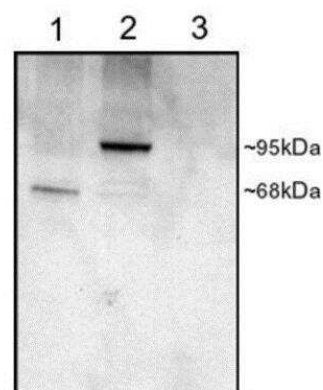
Western Blot: Phosphodiesterase 4D Antibody [NB100-2462] - HEK293 overexpressing Human PDE4D2 and probed with (mock transfection in first lane).



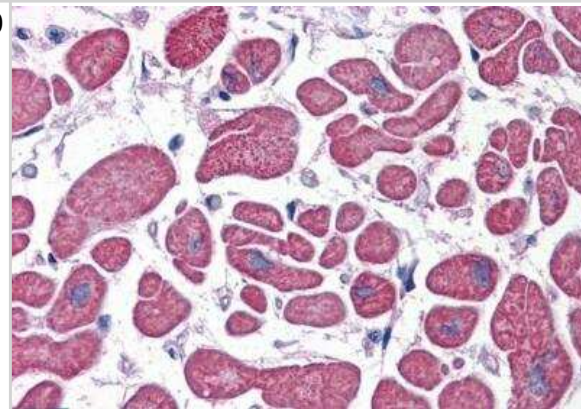
Immunohistochemistry-Paraffin: Phosphodiesterase 4D Antibody [NB100-2462] - staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: Phosphodiesterase 4D Antibody [NB100-2462] - (1ug/ml) of COS cell lysates (25ug protein): transfected with Human PDE4D1 (1), transfected with Human PDE4D3 (2), untransfected (3). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry-Paraffin: Phosphodiesterase 4D Antibody [NB100-2462] - staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



## Publications

Houslay MD. The long and short of vascular smooth muscle phosphodiesterase-4 as a putative therapeutic target. *Mol Pharmacol* 2005-09-01 [PMID: 15958394]

Bazhin AV, Kahnert S, Kimpfler S et al. Distinct metabolism of cyclic adenosine monophosphate in regulatory and helper CD4(+) T cells. *Mol Immunol* 2009-11-23 [PMID: 19939455]





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### Products Related to NB100-2462

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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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