

# Product Datasheet

## PDE6A Antibody - BSA Free

### NBP1-87312

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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#### Publications: 6

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**NBP1-87312**

PDE6A Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. 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>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

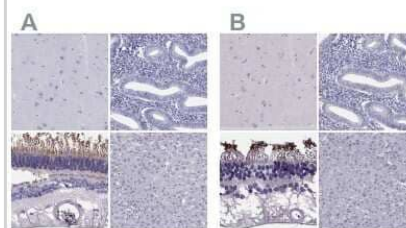
<b>Host</b>	Rabbit
<b>Gene ID</b>	5145
<b>Gene Symbol</b>	PDE6A
<b>Species</b>	Human, Mouse, Monkey
<b>Reactivity Notes</b>	Use in Monkey reported in scientific literature (PMID:35024589). Mouse reactivity reported in scientific literature (PMID: 26188004).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: TLMESLTQFLGWSVLNPDITYESMNKLENRKDIFQDIVKYHVKCDNEEIQKILKTR EYVGKEPWECEEEELAEILQAELPDADKYEINKFHFSDLPLTELELVKCGIQMY YELKVVDKFKHIPQEALVRFMYSLSKGYRKITYHN

**Product Application Details**

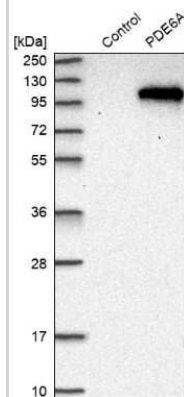
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:5000 - 1:10000, Immunohistochemistry-Paraffin 1:5000 - 1:10000, Immunohistochemistry-Frozen Reported in scientific literature (PMID: 29212391)
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

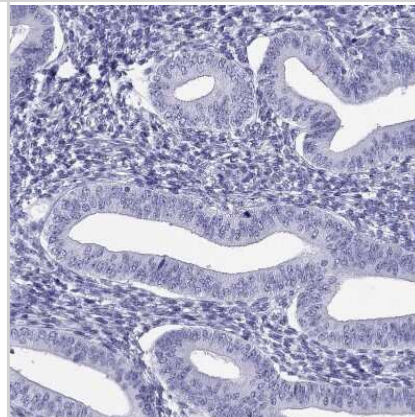
Immunohistochemistry-Paraffin: PDE6A Antibody [NBP1-87312] - Staining of human cerebral cortex, endometrium, eye, retina and liver using Anti-PDE6A antibody NBP1-87312 (A) shows similar protein distribution across tissues to independent antibody NBP2-68985 (B).



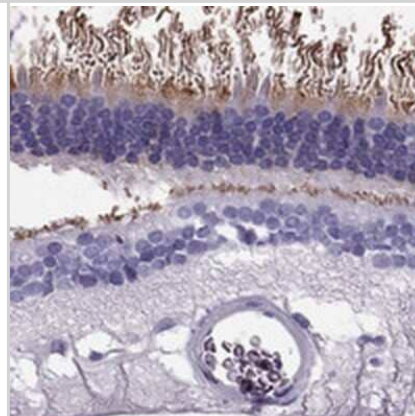
Western Blot: PDE6A Antibody [NBP1-87312] - Analysis in control (vector only transfected HEK293T lysate) and PDE6A over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



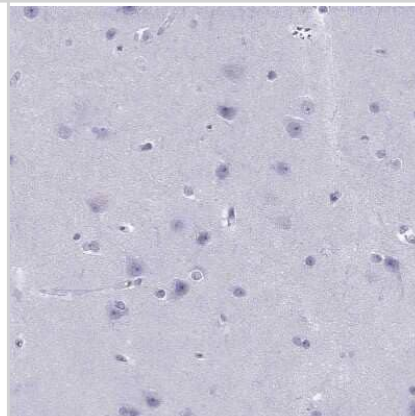
Immunohistochemistry-Paraffin: PDE6A Antibody [NBP1-87312] - Staining of human endometrium shows no positivity in glandular cells as expected.



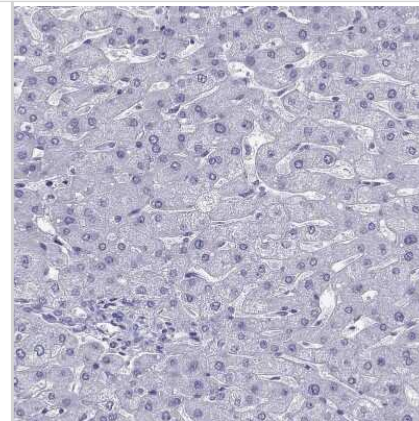
Immunohistochemistry-Paraffin: PDE6A Antibody [NBP1-87312] - Staining of human retina shows moderate cytoplasmic positivity in rods.



Immunohistochemistry-Paraffin: PDE6A Antibody [NBP1-87312] - Staining of human cerebral cortex shows no positivity in neurons as expected.



Immunohistochemistry-Paraffin: PDE6A Antibody [NBP1-87312] -  
Staining of human liver shows no positivity in hepatocytes as expected.



## Publications

Liu Z, Chen S, Davis AE et al. Efficient Rescue of Retinal Degeneration in Pde6a Mice by Engineered Base Editing and Prime Editing. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany) 2024-09-19 [PMID: 39297417]

Pavlou M, Babutzka S, Michalakis S A Bioengineered In Vitro Model to Assess AAV-Based Gene Therapies for Cyclic GMP-Related Disorders *International Journal of Molecular Sciences* 2022-04-20 [PMID: 35562929] (ICC/IF)

Yamasaki S, Tu H, Matsuyama T et al. A Genetic modification that reduces ON-bipolar cells in hESC-derived retinas enhances functional integration after transplantation *iScience* 2022-01-01 [PMID: 35024589] (IHC-Fr, Monkey)

Schon C, Sothilingam V, Muhlfriedel R et al. Gene therapy successfully delays degeneration in a mouse model of PDE6A-linked retinitis pigmentosa (RP 43). *Hum. Gene Ther.* 2017-12-07 [PMID: 29212391] (IHC-Fr, Mouse)

Kiflemariam S, Andersson S, Asplund A et al. Scalable in situ hybridization on tissue arrays for validation of novel cancer and tissue-specific biomarkers. *PLoS One* 2012-01-01 [PMID: 22412953]

Sothilingam V, Garcia Garrido M, Jiao K et al. Retinitis pigmentosa: impact of different Pde6a point mutations on the disease phenotype *Hum. Mol. Genet.* 2015-07-17 [PMID: 26188004] (IF/IHC, Mouse)



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### **Products Related to NBP1-87312**

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NBP1-87312PEP	PDE6A Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit 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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