

Rabbit Anti-PDE9A/AP Conjugated antibody

SL12589R-AP

Product Name	Anti-PDE9A/AP
Chinese Name	碱性磷酸酶（AP）标记的磷酸二酯酶 9A 抗体
Alias	5''-cyclic phosphodiesterase 9A; cGMP specific 3' 5' cyclic phosphodiesterase type 9; CGMP-specific 3'5'-cyclic phosphodiesterase type 9; FLJ90181; High affinity cGMP-specific 3''; High-affinity cGMP-specific 3'5'-cyclic phosphodiesterase 9A; HSPDE9A2; OTTHUMP00000109399; PDE 9A; Pde9a; PDE9A_HUMAN; Phosphodiesterase 9A; phosphodiesterase PDE9A21.
Research Area	Cell biology immunology Signal transduction
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Pig,Cow,Sheep)
Applications	IHC-P=1:100-500,IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	70-73kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PDE9A
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: The protein encoded by this gene catalyzes the hydrolysis of cAMP and cGMP to their corresponding monophosphates. The encoded protein plays a role in signal transduction by regulating the intracellular concentration of these cyclic

nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

Hydrolyzes the second messenger cGMP, which is a key regulator of many important physiological processes.

Subcellular Location:

Cytoplasm. Endoplasmic reticulum; Cell projection > ruffle membrane.
Cytoplasm > perinuclear region and Cell projection > ruffle membrane.
Cytoplasm > perinuclear region. Golgi apparatus. Endoplasmic reticulum.

Tissue Specificity:

Expressed in all tissues examined (testis, brain, small intestine, skeletal muscle, heart, lung, thymus, spleen, placenta, kidney, liver, pancreas, ovary and prostate) except blood. Highest levels in brain, heart, kidney, spleen, prostate and colon. Isoform PDE9A12 is found in prostate.

Similarity:

Belongs to the cyclic nucleotide phosphodiesterase family. PDE9 subfamily.

Database links:

[Entrez Gene: 5152](#) Human

[Entrez Gene: 18585](#) Mouse

[Entrez Gene: 191569](#) Rat

[GenBank: NP_001001567.1](#) Human

[Omim: 602973](#) Human

[SwissProt: O76083](#) Human

[SwissProt: O76083-2](#) Human

[SwissProt: O70628](#) Mouse

[Unigene: 473927](#) Human

[Unigene: 10812](#) Mouse

[Unigene: 20981](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.