



Rabbit Anti-PDE8A antibody

SL12587R

Product Name:	PDE8A
Chinese Name:	磷酸二酯酶8A抗体
Alias:	5"-cyclic phosphodiesterase 8A; cAMP specific cyclic nucleotide phosphodiesterase 8A; cAMP-specific cyclic nucleotide phosphodiesterase 8A; FLJ16150; High affinity cAMP specific and IBMX insensitive 3'5' cyclic phosphodiesterase 8A; High affinity cAMP-specific and IBMX-insensitive 3"; High-affinity cAMP-specific and IBMX-insensitive 3'5'-cyclic phosphodiesterase 8A; HsT19550; PDE 8A; PDE8A; PDE8A_HUMAN; Phosphodiesterase 8A; Phosphodiesterase8A; Weakly similar to 3'5' cyclic nucleotide phosphodiesterase; Weakly similar to 3'5'-cyclic-nucleotide phosphodiesterase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	98-102kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDE8A:201-300/829
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE8 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]

Function:

Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development.

Tissue Specificity:

Expressed in most tissues except thymus and peripheral blood leukocytes. Highest levels in testis, ovary, small intestine and colon.

Similarity:

Belongs to the cyclic nucleotide phosphodiesterase family.
PDE8 subfamily.
Contains 1 PAC (PAS-associated C-terminal) domain.
Contains 1 PAS (PER-ARNT-SIM) domain.

Product Detail:

SWISS:
O60658

Gene ID:
5151

Database links:

[Entrez Gene: 5151](#) Human

[Entrez Gene: 18584](#) Mouse

[Entrez Gene: 308776](#) Rat

[Omim: 602972](#) Human

[SwissProt: O60658](#) Human

[SwissProt: O88502](#) Mouse

[Unigene: 9333](#) Human

[Unigene: 371577](#) Mouse

[Unigene: 24771](#) Rat

Important Note:

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

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