

PDE8B Rabbit pAb

Catalog # AP97976

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	O95263
Other Accession	O95263
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	98979
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PDE8B
Epitope Specificity	351-450/885
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the cyclic nucleotide phosphodiesterase family. PDE8 subfamily. Contains 1 PAS (PER-ARNT-SIM) domain.
DISEASE	Defects in PDE8B are the cause of striatal degeneration autosomal dominant (ADSD) [MIM:609161]. It is a movement disorder affecting the striatal part of the basal ganglia and characterized by bradykinesia, dysarthria and muscle rigidity. These symptoms resemble idiopathic Parkinson disease, but tremor is not present.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a cyclic nucleotide phosphodiesterase (PDE) that catalyzes the hydrolysis of the second messenger cAMP. The encoded protein, which does not hydrolyze cGMP, is resistant to several PDE inhibitors. Defects in this gene are a cause of autosomal dominant striatal degeneration (ADSD). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2010]

Additional Information

Gene ID	8622
Other Names	ADSD; PPNAD3; B230331L10Rik; C030047E14Rik; RNPDE8B; PDE8B_HUMAN; PDE8B; HsPDE8B; Cell proliferation-inducing gene 22 protein; 3.1.4.53; PDE9A_MOUSE; Pde9a; 3.1.4.35; phosphodiesterase 8B; High affinity cAMP-specific and IBMX-insensitive 3', 5'-cyclic phosphodiesterase 8B
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	PDE8B
Function	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. May be involved in specific signaling in the thyroid gland.
Tissue Location	Abundantly expressed in the thyroid. Also very weakly expressed in brain, spinal cord and placenta. In the thyroid isoform 1 predominates, and isoforms 2 and 6 are also highly expressed In the placenta isoforms 1 and 2 are expressed equally. In the brain isoform 2 predominates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.