

PDE8B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20045c

Product Information

Application	WB, E
Primary Accession	O95263
Other Accession	E9Q4S1 , NP_003710.1
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42219
Calculated MW	98979
Antigen Region	296-324

Additional Information

Gene ID	8622
Other Names	High affinity cAMP-specific and IBMX-insensitive 3', 5'-cyclic phosphodiesterase 8B, HsPDE8B, Cell proliferation-inducing gene 22 protein, PDE8B
Target/Specificity	This PDE8B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-324 amino acids from the Central region of human PDE8B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PDE8B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

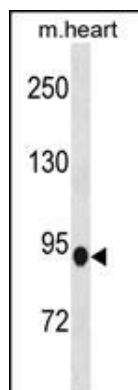
Background

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.

References

Horvath, A., et al. Thyroid 20(4):363-367(2010)
Rose, J. Phd, et al. Mol. Med. (2010) In press :
Appenzeller, S., et al. Am. J. Hum. Genet. 86(1):83-87(2010)
Shields, B.M., et al. J. Clin. Endocrinol. Metab. 94(11):4608-4612(2009)
Bimpaki, E.I., et al. Eur. J. Endocrinol. 161(1):153-161(2009)

Images



PDE8B Antibody (Center) (Cat. #AP20045c) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the PDE8B antibody detected the PDE8B protein (arrow).

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