10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ENPP6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5216c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6UWR7
Other Accession	B0BND0, Q58D68, Q8BGN3
Reactivity	Human, Mouse
Predicted	Rat, Pig, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25818
Calculated MW	50241
Antigen Region	170-197

Additional Information

Gene ID	133121
Other Names	Ectonucleotide pyrophosphatase/phosphodiesterase family member 6, E-NPP 6, NPP-6, 314-, Choline-specific glycerophosphodiester phosphodiesterase, Glycerophosphocholine cholinephosphodiesterase, GPC-Cpde, ENPP6
Target/Specificity	This ENPP6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 170-197 amino acids from the Central region of human ENPP6.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	ENPP6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ENPP6 (HGNC:23409)
Function	Choline-specific glycerophosphodiesterase that hydrolyzes

	glycerophosphocholine (GPC) and lysophosphatidylcholine (LPC) and contributes to supplying choline to the cells (PubMed:15788404). Has a preference for LPC with short (12:0 and 14:0) or polyunsaturated (18:2 and 20:4) fatty acids. In vitro, hydrolyzes only choline-containing lysophospholipids, such as sphingosylphosphorylcholine (SPC), platelet-activating factor (PAF) and lysoPAF, but not other lysophospholipids (By similarity).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Note=A small amount of the protein may be found in the extracellular milieu
Tissue Location	Predominantly expressed in kidney and brain. In the kidney, expressed specifically in the proximal tubules and thin descending limbs of Henle (at protein level)

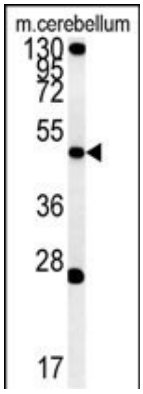
Background

ENPP6 is choline-specific glycerophosphodiester phosphodiesterase. This protein hydrolyzes the classical substrate for phospholipase C, p-nitrophenyl phosphorylcholine, while it does not hydrolyze the classical nucleotide phosphodiesterase substrate, p-nitrophenyl thymidine 5'-monophosphate.

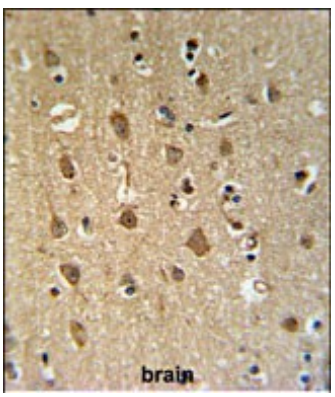
References

Sakagami, H., et al. J. Biol. Chem. 280(24):23084-23093(2005)
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)

Images



Western blot analysis of ENPP6 Antibody (Center) (Cat. #AP5216c) in mouse cerebellum tissue lysates (35ug/lane).ENPP6 (arrow) was detected using the purified Pab.



ENPP6 Antibody (Center) (Cat. #AP5216c) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ENPP6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.