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

SEPT8 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16836b

Product Information

Application	WB, E
Primary Accession	Q92599
Other Accession	NP_001092281.1, NP_001092282.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36575
Calculated MW	55756
Antigen Region	407-436

Additional Information

Gene ID	23176
Other Names	Septin-8, SEPT8, KIAA0202
Target/Specificity	This SEPT8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 407-436 amino acids from the C-terminal region of human SEPT8.
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	SEPT8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEPTIN8 (HGNC:16511)
Function	Filament-forming cytoskeletal GTPase (By similarity). May play a role in platelet secretion (PubMed:15116257). Seems to participate in the process of SNARE complex formation in synaptic vesicles (By similarity).

Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:B0BNF1}. Cytoplasm, cytoskeleton. Synapse {ECO:0000250|UniProtKB:B0BNF1}. Cell projection, axon {ECO:0000250|UniProtKB:B0BNF1}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:B0BNF1}. Presynapse {ECO:0000250|UniProtKB:B0BNF1}. Note=Expressed in axons of immature neurons, localizes to synapses in mature neurons (By similarity). In platelets, found in areas surrounding alpha-granules (PubMed:15116257) {ECO:0000250|UniProtKB:B0BNF1, ECO:0000269|PubMed:15116257}
Tissue Location	Widely expressed, including in brain, heart and platelets; most abundant in aorta. Isoform 2 is expressed at low levels in specific brain areas, such as occipital pole, frontal lobe, temporal lobe and putamen. Isoform 1 and 3 are highly expressed in specific brain areas, such as occipital pole, frontal lobe, temporal lobe and putamen. Isoform 2 is highly expressed in prostate, testis and ovary Isoform 1 and isoform 3 are expressed at low levels in prostate, testis and ovary.

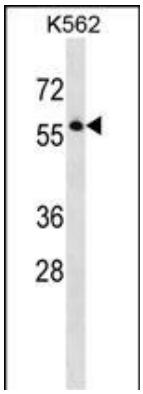
Background

SEPT8 is a member of the highly conserved septin family. Septins are 40- to 60-kD GTPases that assemble as filamentous scaffolds. They are involved in the organization of submembranous structures, in neuronal polarity, and in vesicle trafficking (Blaser et al., 2003 [PubMed 12909369]).

References

Souza, T.A., et al. Protein J. 29(5):328-335(2010)
Ridruechai, C., et al. Genes Immun. 11(5):416-422(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Xin, X., et al. J. Histochem. Cytochem. 55(11):1089-1094(2007)
Steels, J.D., et al. Cell Motil. Cytoskeleton 64(10):794-807(2007)

Images



SEPT8 Antibody (C-term) (Cat. #AP16836b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the SEPT8 antibody detected the SEPT8 protein (arrow).