SEPT5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SEPT5, Polyclonal Antibody
Full Product Name	SEPT5, NT (SEPT5, PNUTL1, Septin-5, Cell division control-related protein 1, Peanut-like protein 1) (MaxLight 490)
Product Gene Name	anti-SEPT5 antibody
Product Synonym Names	SEPT5; PNUTL1; Septin-5; Cell division control-related protein 1; Peanut-like protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,332 Da
OMIM	602724
3D Structure	ModBase 3D Structure for Q99719
Immunogen	SEPT5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SEPT5.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-SEPT5 antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-SEPT5 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SEPT5 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SEPT5 antibody	This gene is a member of the septin gene family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. This gene is mapped to 22q11, the region frequently deleted in DiGeorge and velocardiofacial syndromes. A translocation involving the MLL gene and this gene has also been reported in patients with acute myeloid leukemia. Alternative splicing results in multiple transcript variants. The presence of a non-consensus polyA signal (AACAAT) in this gene also results in read-through transcription into the downstream neighboring gene (GP1BB; platelet glycoprotein Ib), whereby larger, non-coding transcripts are produced. [provided by RefSeq].

Product References and Citations for anti-SEPT5 antibody	Jung, A.E., et al. Mol. Ther. 16(6):1048-1055(2008). Amin, N.D., et al. J. Neurosci. 28(14):3631-3643(2008). Xin, X., et al. J. Histochem. Cytochem. 55(11):1089-1094(2007). Blaser, S., et al. J. Pathol. 210(1):103-110(2006). Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004).
Other Notes	Small volumes of anti-SEPT5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SEPT5 purchase	MBS6346191 is an antibody targeting SEPT5. Also known as SEPT5, NT (SEPT5, PNUTL1, Septin-5, Cell division control-related protein 1, Peanut-like protein 1) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEPT5. It may not necessarily be applicable to this product.

NCBI GI #	9945439
NCBI GeneID	5413
NCBI Accession #	NP_002679.2
UniProt Primary Accession #	Q99719
UniProt Secondary Accession #	O15251; Q96MY5
UniProt Related Accession #	Q99719
GenBank Nucleotide #	NM_002688.5
NCBI Official Full Name	septin-5 isoform 1
NCBI Official Synonym Full Names	septin 5
NCBI Official Symbol	SEPT5
NCBI Official Synonym Symbols	H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1; HCDCREL-1
UniProt Protein Name	Septin-5
UniProt Synonym Protein Names	Cell division control-related protein 1; CDCrel-1; Peanut-like protein 1
UniProt Gene Name	SEPT5
UniProt Synonym Gene Names	PNUTL1; CDCrel-1
UniProt Entry Name	SEPT5_HUMAN
NCBI Protein Information	septin-5; peanut-like 1; platelet glycoprotein Ib beta chain; cell division control related protein 1
NCBI Summary for SEPT5	This gene is a member of the septin gene family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. This gene is mapped to 22q11, the region frequently deleted in DiGeorge and velocardiofacial syndromes. A translocation involving the MLL gene and this gene has also been reported in patients with acute myeloid leukemia. Alternative splicing results in multiple transcript variants. The presence of a non-consensus polyA signal (AACAAT) in this gene also results in read-through transcription into the downstream neighboring gene (GP1BB; platelet glycoprotein Ib), whereby larger, non-coding transcripts are produced. [provided by RefSeq, Dec 2010]

UniProt Comments for SEPT5	SEPT5: Filament-forming cytoskeletal GTPase. May play a role in cytokinesis (Potential). May play a role in platelet secretion. Belongs to the septin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Hydrolase; Vesicle; Cytoskeletal Chromosomal Location of Human Ortholog: 22q11.21 Cellular Component: synaptic vesicle; cytoskeleton; plasma membrane; terminal button; cell cortex Molecular Function: GTPase activity; protein binding; GTP binding; structural molecule activity Biological Process: regulation of exocytosis; metabolic process; cytokinesis; synaptic vesicle targeting
Research Articles on SEPT5	**1.** HSP70 and constitutively active HSF1 mediate protection against CDCrel-1-mediated toxicity
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