

SEPT12 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19298c

Product Information

Application	WB, E
Primary Accession	Q8IYM1
Other Accession	NP_001147930.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39854
Calculated MW	40748
Antigen Region	218-244

Additional Information

Gene ID	124404
Other Names	Septin-12, SEPT12
Target/Specificity	This SEPT12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 218-244 amino acids from the Central region of human SEPT12.
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	SEPT12 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEPTIN12 (HGNC:26348)
Synonyms	SEPT12
Function	Filament-forming cytoskeletal GTPase (By similarity). Involved in spermatogenesis. Involved in the morphogenesis of sperm heads and the

elongation of sperm tails probably implicating the association with alpha- and beta-tubulins (PubMed:[24213608](#)). Forms a filamentous structure with SEPTIN7, SEPTIN6, SEPTIN2 and probably SEPTIN4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (PubMed:[25588830](#)). May play a role in cytokinesis (Potential).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, spindle. Nucleus Cell projection, cilium, flagellum Note=At interphase, forms a filamentous structure in the cytoplasm During anaphase, translocates to the central spindle region and to the midbody during cytokinesis. Found in the sperm annulus. Colocalized with SPAG4 at the nuclear periphery in round spermatids, at sperm neck in elongated spermatids and at midpiece regions in ejaculated spermatozoa.

Tissue Location

Widely expressed. Expressed in lymph node.

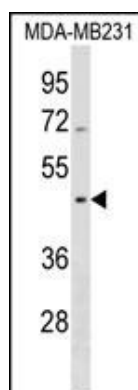
Background

Septins, such as SEPT12, are conserved GTP-binding proteins that function as dynamic, regulatable scaffolds for the recruitment of other proteins. They are involved in membrane dynamics, vesicle trafficking, apoptosis, and cytoskeleton remodeling, as well as infection, neurodegeneration, and neoplasia (Hall et al., 2005 [PubMed 15915442]).

References

Lin, Y.H., et al. Am. J. Pathol. 174(5):1857-1868(2009)
Ding, X., et al. Mol. Cells 25(3):385-389(2008)
Ding, X., et al. J. Biochem. Mol. Biol. 40(6):973-978(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Hall, P.A., et al. J. Pathol. 206(3):269-278(2005)

Images



SEPT12 Antibody (Center)(Cat. #AP19298c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the SEPT12 antibody detected the SEPT12 protein (arrow).

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