

**SEPT12 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19298c****Specification**

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**SEPT12 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8IYM1](#)**SEPT12 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 124404**Other Names**

Septin-12, SEPT12

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SEPT12 Antibody (Center) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/24213608" target="\_blank">24213608</a>). 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:<a href="http://www.uniprot.org/citations/25588830" target="\_blank">25588830</a>). 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.

**SEPT12 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**SEPT12 Antibody (Center) Blocking Peptide - Images****SEPT12 Antibody (Center) Blocking Peptide - 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]).

**SEPT12 Antibody (Center) Blocking Peptide - 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)