

Septin 7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51501

Product Information

Application	WB
Primary Accession	Q16181
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50680

Additional Information

Gene ID	989
Other Names	Septin-7, CDC10 protein homolog, SEPT7, CDC10
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Septin 7. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SEPTIN7 (HGNC:1717)
Synonyms	CDC10, SEPT7
Function	Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Required for normal progress through mitosis. Involved in cytokinesis. Required for normal association of CENPE with the kinetochore. Plays a role in ciliogenesis and collective cell movements. Forms a filamentous structure with SEPTIN12, 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).
Cellular Location	Cytoplasm. Chromosome, centromere, kinetochore Cytoplasm, cytoskeleton, spindle Cleavage furrow. Midbody. Cytoplasm, cytoskeleton, cilium axoneme. Cell projection, cilium, flagellum. Note=Distributed throughout the cytoplasm in prometaphase cells. Associated with the spindle during metaphase. Associated with the central spindle and at the cleavage furrow in anaphase

cells. Detected at the midbody in telophase Associated with actin stress fibers (By similarity). Found in the sperm annulus (PubMed:25588830). {ECO:0000250, ECO:0000269 | PubMed:25588830}

Tissue Location

Widely expressed..

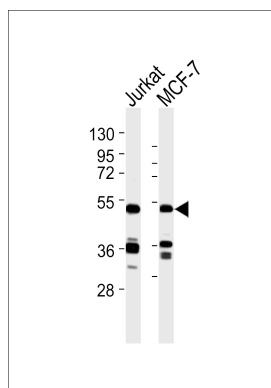
Background

Filament-forming cytoskeletal GTPase. Required for normal organization of the actin cytoskeleton. Required for normal progress through mitosis. Involved in cytokinesis. Required for normal association of CENPE with the kinetochore. Plays a role in ciliogenesis and collective cell movements.

References

Nakatsuru S.,et al.Biochem. Biophys. Res. Commun. 202:82-87(1994).
Nagata K.,et al.J. Biol. Chem. 279:55895-55904(2004).
Hall P.A.,et al.J. Pathol. 206:269-278(2005).
Kremer B.E.,et al.Mol. Biol. Cell 16:4648-4659(2005).
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Images



All lanes : Anti-Septin 7 Antibody at 1:1000 dilution Lane 1: Jurkat whole cell lysates Lane 2: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 51 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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