

Rabbit SEPT7 Polyclonal Antibody | anti-SEPT7 antibody

SEPT7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325110	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

SEPT7; Polyclonal Antibody; SEPT7 Antibody; CDC10; CDC10 protein homolog; CDC3; Cell division cycle 10; NBLA02942; SEPT7_HUMAN; SEPT7A; Septin 7; Septin-7; anti-SEPT7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SEPT7 antibody detects endogenous levels of total 41524
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	437
Applicable Applications for anti-SEPT7 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Chromosome > Centromere > Kinetochore. Cytoplasm > Cytoskeleton > Spindle. Cleavage Furrow. Midbody. Cytoplasm > Cytoskeleton > Cilium Axoneme. 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.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA325110 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from MCF-7 cell using SEPT7 antibody.



WB (Western Blot)

Western blot analysis of SEPT7 expression in various lysates

ADDITIONAL INFORMATION

Related Product Information for anti-SEPT7 antibody

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 SEPT12, SEPT6, SEPT2 and probably SEPT4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (PubMed:25588830).

Subunit Structure: Septins polymerize into heterooligomeric protein complexes that form filaments, and associate with cellular membranes, actin filaments and microtubules. GTPase activity is required for filament formation. Filaments are assembled from asymmetrical heterotrimers, composed of SEPT2, SEPT6 and SEPT7 that associate head-to-head to form a hexameric unit. Within the trimer, directly interacts with SEPT6, while interaction with SEPT2 seems indirect. In the absence of SEPT6, forms homodimers. Interacts directly with CENPE and links CENPE to septin filaments composed of SEPT2, SEPT6 and SEPT7. Interacts with SEPT5 and SEPT8 (By similarity). Interacts with SEPT9 and SEPT11. Component of a septin core octomeric complex consisting of SEPT12, SEPT7, SEPT6 and SEPT2 or SEPT4 in the order 12-7-6-2-2-6-7-12 or 12-7-6-4-4-6-7-12 and located in the sperm annulus; the SEPT12:SEPT7 association is mediated by the respective GTP-binding domains (PubMed:25588830).

Similarity: Belongs to the TRAFAC class TrmE-Era-EngA-EngB-Septin-like GTPase superfamily. Septin GTPase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148352331
NCBI GeneID	989
NCBI Accession #	NP_001779.3
NCBI GenBank Nucleotide #	NM_001788.5
UniProt Accession #	Q16181; Q52M76; Q6NX50
Molecular Weight	Observed: 48 kD Predicted: 51 kDa
NCBI Official Full Name	septin-7 isoform 1
NCBI Official Synonym Full Names	septin 7
NCBI Official Symbol	SEPT7
NCBI Official Synonym Symbols	CDC3; CDC10; SEPT7A; NBLA02942
NCBI Protein Information	septin-7

UniProt Protein Name	Septin-7
UniProt Gene Name	SEPT7
UniProt Synonym Gene Names	CDC10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sept7-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325110>