

KD-Validated Anti-Septin 7 Rabbit Monoclonal Antibody Rabbit monoclonal antibody Catalog # AGI2265

Specification

KD-Validated Anti-Septin 7 Rabbit Monoclonal Antibody - Product Information

Application Primary Accession Reactivity Clonality Isotype Calculated MW Gene Name Aliases WB <u>Q16181</u> Rat, Human, Mouse Monoclonal Rabbit IgG Predicted, 51 kDa; observed, 45 kDa KDa SEPTIN7 SEPTIN7; Septin 7; Septin-7; SEPT7A; CDC10; SEPT7; CDC3; CDC10 Protein Homolog; CDC10 (Cell Division Cycle 10, S. Cerevisiae, Homolog); CDC10 Cell Division Cycle 10 Homolog (S. Cerevisiae); NBLA02942 Recombinant protein of human Septin 7

Immunogen

KD-Validated Anti-Septin 7 Rabbit Monoclonal Antibody - Additional Information

Gene ID 989 Other Names Septin-7, CDC10 protein homolog, SEPTIN7 (HGNC:1717), CDC10, SEPT7

KD-Validated Anti-Septin 7 Rabbit Monoclonal Antibody - 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..

KD-Validated Anti-Septin 7 Rabbit Monoclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

KD-Validated Anti-Septin 7 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-septin 7 antibody (Cat#AGI2265). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-septin 7 antibody (Cat#AGI2265, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

kDa 250 — 150 — 100 — 75 —	JNT sh ^{ABW} ← Hsp90 α	kDa 250 — 150 — 100 — 75 —	art antart	uin Biotechnologies LLC
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Western blotting analysis using anti-septin 7 antibody (Cat#AGI2265). Septin 7 expression in wild-type (WT) and septin 7 (SEPTIN7) shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-septin 7 antibody (Cat#AGI2265, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.