

Product Name: KD-Validated Septin 7 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00326

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 50.7kDa

Antigen Information

Gene Name	SEPTIN7 SEPTIN7; Septin 7; Septin-7; SEPT7A; CDC10; SEPT7; CDC3; CDC10 Protein Homolog; CDC10
Alternative Names	(Cell Division Cycle 10, S. Cerevisiae, Homolog); CDC10 Cell Division Cycle 10 Homolog (S. Cerevisiae); NBLA02942
Gene ID	989.0
SwissProt ID	Q16181
Immunogen	Recombinant protein of human Septin 7

Background

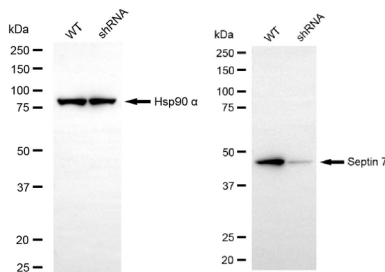
This gene encodes a protein that is highly similar to the CDC10 protein of *Saccharomyces cerevisiae*. The protein also shares similarity with Diff 6 of *Drosophila* and with H5 of mouse. Each of these similar proteins, including the yeast CDC10, contains a

GTP-binding motif. The yeast CDC10 protein is a structural component of the 10 nm filament which lies inside the cytoplasmic membrane and is essential for cytokinesis. This human protein functions in gliomagenesis and in the suppression of glioma cell growth, and it is required for the association of centromere-associated protein E with the kinetochore. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified on chromosomes 5, 7, 9, 10, 11, 14, 17 and 19. [provided by RefSeq, Jul 2011]

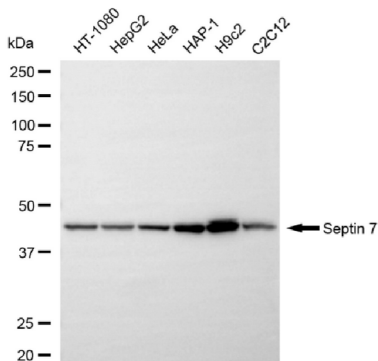
Research Area

Cell Biology

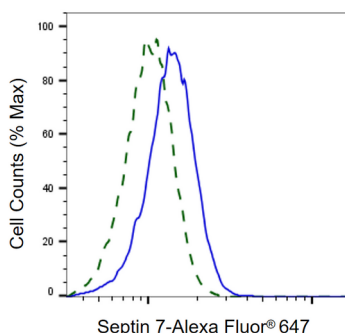
Image Data



Western blotting analysis using septin 7 antibody (KVA00326). Septin 7 expression in wild-type (WT) and septin 7 (SEPTIN7) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with septin 7 antibody (KVA00326, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using septin 7 antibody (KVA00326). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with septin 7 antibody (KVA00326, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of Septin 7 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Septin 7 antibody (KVA00326, 1:2,000) and analyzed using BD flow cytometer.