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SEPT1 Antibody

Catalog # ASC11497

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q8WYJ6
Other Accession	NP_443070, 431822382
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42386
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SEPT1 antibody can be used for detection of SEPT1 by Western blot at 1 g/mL. Antibody can also be used for immunocytochemistry starting at 5 g/mL. For immunofluorescence start at 5 g/mL.

Additional Information

Gene ID	1731
Other Names	Septin-1, LARP, Peanut-like protein 3, Serologically defined breast cancer antigen NY-BR-24, SEPT1, DIFF6, PNUTL3
Target/Specificity	SEPT1; At least two isoforms of SEPT1 are known to exist. This antibody is predicted to not cross-react with other Septin protein family members.
Reconstitution & Storage	SEPT1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SEPT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SEPTIN1 (HGNC:2879)
Synonyms	DIFF6, PNUTL3, SEPT1
Function	Filament-forming cytoskeletal GTPase (By similarity). May play a role in cytokinesis (Potential).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Midbody. Note=Remains at the centrosomes and the nearby microtubules throughout mitosis. Localizes to the midbody

	during cytokinesis
Tissue Location	Expressed at high levels in lymphoid and hematopoietic tissues.

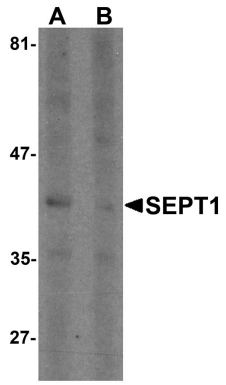
Background

SEPT1 Antibody: SEPT1 (also known as Septin 1), is a member of the septin family of GTPases. Members of this family are required for cytokinesis and the maintenance of cellular morphology. SEPT1 was initially identified through yeast two-hybrid screening as an interaction partner for the serine/threonine kinase Aurora-B. During mitosis, SEPT1 localizes to the spindle pole, suggesting that it may play a role in cytokinesis and chromosome congression.

References

Qi M, Yu W, Liu S, et al. Septin1, a new interaction partner for human serine/threonine kinase aurora-B. Biochem. Biophys. Res. Commun. 2005; 336:994-1000.
Russell SE and Hall PA. Septin genomics: a road less travelled. Biol. Chem. 2011; 392:763-7.
Zhu J, Qi ST, Wang YP, et al. Septin1 is required for spindle assembly and chromosome congression in mouse oocytes. Dev. Dyn. 2011; 240:2281-9.

Images

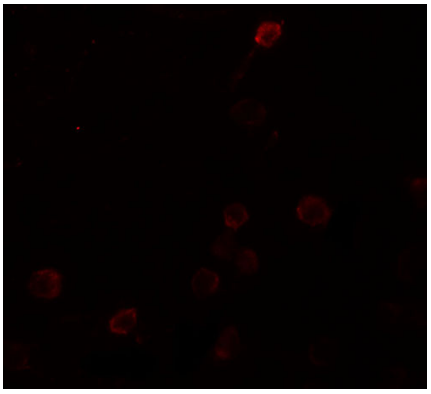


Western blot analysis of SEPT1 in Raji cell lysate with SEPT1 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry of SEPT1 in Raji cells with SEPT1 antibody at 5 µg/mL.

Immunofluorescence of SEPT1 in Raji cells with SEPT1 antibody at 20 µg/mL.



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