

SYTL5 Antibody

Catalog # ASC11352

Product Information

Application	WB, E, IHC-P
Primary Accession	Q8TDW5
Other Accession	NP_620135 , 254039650
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	81523
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SYTL5 antibody can be used for detection of SYTL5 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL.

Additional Information

Gene ID	94122
Other Names	Synaptotagmin-like protein 5, SYTL5, SLP5
Target/Specificity	SYTL5; Multiple isoforms of SYTL5 are known to exist. SYTL5 antibody is predicted to not cross-react with other SYTL protein family members.
Reconstitution & Storage	SYTL5 antibody can be stored at 4°C for three months and -20°C, 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	SYTL5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SYTL5
Synonyms	SLP5
Function	May act as Rab effector protein and play a role in vesicle trafficking. Binds phospholipids.
Cellular Location	Membrane; Peripheral membrane protein
Tissue Location	Highly expressed in placenta and liver.

Background

SYTL5 Antibody: SYTL5 belongs to the synaptotagmin-like (Slp) protein family, which contains a unique Slp homolog domain (SHD) at the N-terminus. The SHD functions as a binding site for Rab27A, which plays a role in protein transport. Expression of SYTL5 is restricted to placenta and liver, suggesting that it might be involved in Rab27A-dependent membrane trafficking in specific tissues. Several members of the synaptotagmin family are calcium-sensing vesicle-fusion proteins as mediators of cell migration. SYTL7 & SYTL5 were positive regulators of chemotaxis, whereas SYTL2 was a negative regulator of chemotaxis.

References

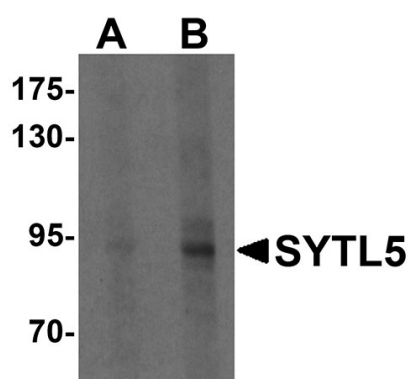
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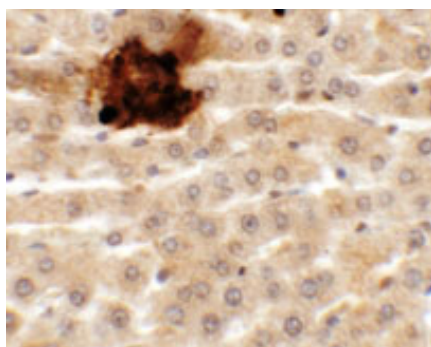
Colvin RA, Means TK, Diefenbach TJ, et al. Synaptotagmin-mediated vesicle fusion regulates cell migration. *Nat. Immunol.* 2010; 11:495-502

Fukuda M, Mikoshiba K. Synaptotagmin-like protein 1-3: a novel family of C-terminal-type tandem C2 proteins. *Biochem. Biophys. Res. Commun.* 2001; 281:1226-33.

Images



Western blot analysis of SYTL5 in HeLa cell lysate with SYTL5 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of SYTL2 in rat liver tissue with SYTL2 antibody at 5 $\mu\text{g/mL}$.

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