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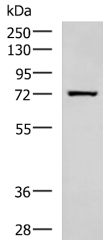
SHTN1 Polyclonal Antibody

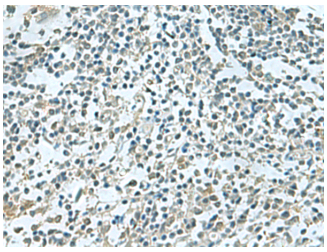
Catalog No.	E-AB-18189	**Reactivity**	H
Storage	Store at -20℃. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	WB,IHC,ELISA	**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Images



Western blot analysis of Human fetal liver tissue lysate using SHTN1 Polyclonal Antibody at dilution of 1:600



Immunohistochemistry of paraffin-embedded Human tonsil tissue using SHTN1 Polyclonal Antibody at dilution of 1:60(×200)

Immunogen Information

Immunogen	Synthetic peptide of human SHTN1
Gene Accession	NP001120683
Swissprot	A0MZ66
Synonyms	DKFZp686A0439,hypothetical protein FLJ11122,Kiaa1598,MGC40476,Putative uncharacterized protein KIAA1598,Shootin 1,Shootin-1,SHOT1

Product Information

Calculated MW	72 kDa
Observed MW	Refer to figures
Buffer	PBS with 0.05% NaN3 and 40% Glycerol,pH7.4
Purify	Antigen affinity purification
Dilution	WB 1:500-1:2000, IHC 1:50-1:100, ELISA 1:5000-1:10000

Background

Involved in the generation of internal asymmetric signals required for neuronal polarization and neurite outgrowth. Mediates netrin-1-induced F-actin-substrate coupling or 'clutch engagement' within the axon growth cone through activation of CDC42, RAC1 and PAK1-dependent signaling pathway, thereby converting the F-actin retrograde flow into traction forces, concomitantly with filopodium extension and axon outgrowth. Plays a role in cytoskeletal organization by regulating the subcellular localization of phosphoinositide 3-kinase (PI3K) activity at the axonal growth cone. Plays also a role in regenerative neurite outgrowth. In the developing cortex, cooperates with KIF20B to promote both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex. Involved in the accumulation of phosphatidylinositol 3,4,5-trisphosphate (PIP3) in the growth cone of primary hippocampal neurons.