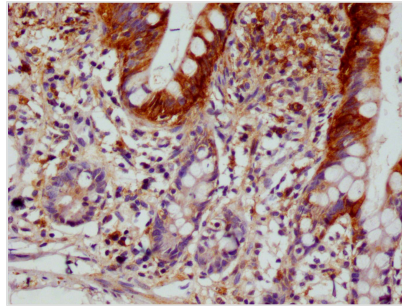




SCIN Recombinant Monoclonal Antibody

Product Code	CSB-RA213020A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9Y6U3
Immunogen	A synthesized peptide derived from human SCIN
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Ca(2+)-dependent actin filament-severing protein that has a regulatory function in exocytosis by affecting the organization of the microfilament network underneath the plasma membrane (PubMed:8547642, PubMed:26365202). Severing activity is inhibited by phosphatidylinositol 4,5-bis-phosphate (PIP2) (By similarity). In vitro, also has barbed end capping and nucleating activities in the presence of Ca(2+). Required for megakaryocyte differentiation, maturation, polyploidization and apoptosis with the release of platelet-like particles (PubMed:11568009). Plays a role in osteoclastogenesis (OCG) and actin cytoskeletal organization in osteoclasts (By similarity). Regulates chondrocyte proliferation and differentiation (By similarity). Inhibits cell proliferation and tumorigenesis. Signaling is mediated by MAPK, p38 and JNK pathways (PubMed:11568009). {ECO:0000250 UniProtKB:Q28046, ECO:0000250 UniProtKB:Q5ZIV9, ECO:0000250 UniProtKB:Q60604, ECO:0000269 PubMed:11568009, ECO:0000269 PubMed:26365202, ECO:0000269 PubMed:8547642}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	SCIN
Clone No.	12B11
Image	



IHC image of CSB-RA213020A0HU diluted at 1:100 and staining in paraffin-embedded human small intestine tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

Description

The preparation of the SCIN recombinant monoclonal antibody involves a genetic engineering process that includes cloning and expression of the gene encoding for the SCIN monoclonal antibody. The synthesized peptide derived from the human SCIN protein was used as the immunogen to generate the SCIN monoclonal antibody. The obtained MAS1L recombinant monoclonal antibody underwent purification using affinity chromatography to ensure high purity. It has been validated for use in human samples and can specifically recognize and bind to the SCIN protein. Quality and specificity testing of the SCIN recombinant monoclonal antibody have been carried out using ELISA and IHC applications.

SCIN is a calcium-dependent actin-severing protein that is involved in regulating actin dynamics in cells. It is expressed in various cell types including muscle cells, platelets, and neurons, and has been shown to play a role in diverse cellular processes such as cell migration, cytokinesis, and neurite outgrowth. SCIN is thought to interact with actin filaments and sever them into shorter segments, which can then be used as building blocks for other actin structures. Additionally, SCIN has been implicated in regulating the formation of dendritic spines in neurons, which are important for synaptic transmission and plasticity.