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SHARPIN Recombinant Rabbit mAb

Catalog # AP98701

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	Q9H0F6
Other Accession	Q9H0F6
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	39949
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 RanBP2-type zinc finger.
SUBUNIT	Monomer and homodimer. Interacts with SHANK1, EYA1 and EYA2 (By similarity). Component of the LUBAC complex (linear ubiquitin chain assembly complex) which consists of SHARPIN, RBCK1 and RNF31. LUBAC has a MW of approximative 600 kDa suggesting a heteromultimeric assembly of its subunits. Associates with the TNF-R1 signaling complex (TNF-RSC) in a stimulation-dependent manner.
Background Descriptions	Enables polyubiquitin modification-dependent protein binding activity. Involved in defense response to bacterium; protein linear polyubiquitination; and regulation of signal transduction. Located in cytosol. Part of LUBAC complex. [provided by Alliance of Genome Resources, Jul 2025]

Additional Information

Gene ID	81858
Other Names	AIFID; SIPL1; SHRPN_HUMAN; SHARPIN; Shank-associated RH domain-interacting protein; Shank-interacting protein-like 1 (hSIPL1); SHANK associated RH domain interactor; Shank-interacting protein-like 1; hSIPL1
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SHARPIN {ECO:0000303|PubMed:20179993}

Synonyms	SIPL1
Function	Component of the LUBAC complex which conjugates linear polyubiquitin chains in a head-to-tail manner to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation (PubMed:21455173, PubMed:21455180, PubMed:21455181). LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways (PubMed:21455173, PubMed:21455180, PubMed:21455181). Linear ubiquitination mediated by the LUBAC complex interferes with TNF- induced cell death and thereby prevents inflammation (PubMed:21455173, PubMed:21455180, PubMed:21455181). LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex (PubMed:21455173, PubMed:21455180, PubMed:21455181). The LUBAC complex is also involved in innate immunity by conjugating linear polyubiquitin chains at the surface of bacteria invading the cytosol to form the ubiquitin coat surrounding bacteria (PubMed:28481331). LUBAC is not able to initiate formation of the bacterial ubiquitin coat, and can only promote formation of linear polyubiquitins on pre-existing ubiquitin (PubMed:28481331). The bacterial ubiquitin coat acts as an 'eat-me' signal for xenophagy and promotes NF-kappa-B activation (PubMed:28481331). Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis (PubMed:23708998).
Cellular Location	Cytoplasm, cytosol. Synapse {ECO:0000250|UniProtKB:Q9EQL9}. Note=Enriched at synaptic sites in mature neurons where it colocalizes with SHANK1 {ECO:0000250|UniProtKB:Q9EQL9}
Tissue Location	Highly expressed in skeletal muscle and placenta and at lower levels in brain, heart, colon without mucosa, thymus, spleen, kidney, liver, small intestine, lung and peripheral blood leukocytes. Up-regulated in various tumor tissues such as kidney, liver, ovary and pancreas tumors.

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