SHARPIN Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SHARPIN, Blocking Peptide
Full Product Name	SHARPIN Peptide - C-terminal region
Product Gene Name	SHARPIN blocking peptide
Product Synonym Gene Name	DKFZp434N1923; SIPL1
Sequence	SAPREAPATG PSPQHPQKMD GELGRLFPPS LGLPPGPQPA ASSLPSPLQP
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	SHARPIN peptide (MBS3239252) is used for blocking the activity of SHARPIN antibody (MBS3214315)
Molecular Weight	40kDa
OMIM	611885
Product Categories/Family for SHARPIN blocking peptide	Peptide
Applications Tested/Suitable for SHARPIN blocking peptide	Western Blot (WB)
Related Product Information for SHARPIN blocking peptide	This is a synthetic peptide designed for use in combination with anti-SHARPIN Antibody, made Target Description: SHARPIN may have a role in normal immune development and control of inflammation.
Other Notes	Small volumes of SHARPIN blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SHARPIN purchase	MBS3239252 is a blocking peptide targeting SHARPIN. Also known as SHARPIN Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SHARPIN. It may not necessarily be applicable to this product.

NCBI GI #	118918415
NCBI GeneID	81858
NCBI Accession #	NP_112236
UniProt Primary Accession #	Q9H0F6
UniProt Related Accession #	Q9H0F6
GenBank Nucleotide #	NM_030974
NCBI Official Full Name	sharpin
NCBI Official Synonym Full Names	SHANK associated RH domain interactor

NCBI Official Symbol	SHARPIN
NCBI Official Synonym Symbols	SIPL1
UniProt Protein Name	Sharpin
UniProt Synonym Protein Names	Shank-associated RH domain-interacting protein; Shank-interacting protein-like 1
Protein Family	Sharpin
UniProt Gene Name	SHARPIN
UniProt Synonym Gene Names	SIPL1; hSIPL1
UniProt Entry Name	SHRPN_HUMAN
NCBI Protein Information	sharpin
UniProt Comments for SHARPIN	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. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is proposed to be 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. Together with FAM105B/otulin, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis. Ref.10 Ref.11 Ref.12 Subunit structure: 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. Ref.10 Ref.11 Ref.12 Ref.13 Subcellular location: Cytoplasm › cytosol Ref.2. Tissue specificity: 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. Ref.2 Domain: The Ubiquitin-like domain is required for the interaction with RNF31. Ref.10 Ref.11 Ref.12The RanBP2-type zinc fingers mediate the specific interaction with ubiquitin. Binds preferentially linear polyubiquitin chains and 'Lys-63'-linked polyubiquitin chains over 'Lys-48'-linked polyubiquitin chains. Also binds monoubiquitin. Ref.10 Ref.11 Ref.12 Sequence similarities: Contains 1 RanBP2-type zinc finger.Contains 1 ubiquitin-like domain. Sequence caution: The sequence BAC11666.1 differs from that shown. Reason: Frameshift at position 334. The sequence BAC53797.1 differs from that shown. Reason: Frameshift at position 218. The sequence BAC53798.1 differs from that shown. Reason: Aberrant splicing.
Research Articles on SHARPIN	**1.** Sharpin-Arp2/3 interaction promotes lamellipodium formation.
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