# SHANK-Associated Rh Domain Interactor (SHARPIN) ELISA Kit for Mouse

## PRODUCT OVERVIEW

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| **Product Name** | SHANK-associated RH domain interactor (SHARPIN), ELISA Kit |
| **Full Product Name** | Mouse Sharpin, SHARPIN ELISA Kit |
| **Product Gene Name** | SHARPIN elisa kit |
| **Product Synonym Names** | Mouse Sharpin (SHARPIN) ELISA kit; DKFZp434N1923; SIPL1; shank-interacting protein-like 1; SHANK-associated RH domain interactor |
| **Species Reactivity** | Mouse |
| **Preparation and Storage** | Store all reagents at 2-8 degree C |
| **Molecular Weight** | 39,852 Da |
| **3D Structure** | ModBase 3D Structure for Q91WA6 |
| **Related Product Information for SHARPIN elisa kit** | MBS9320631 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the SHANK-associated RH domain interactor (SHARPIN) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing SHARPIN. The ELISA analytical biochemical technique of the MBS9320631 kit is based on SHARPIN antibody-SHARPIN antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SHARPIN antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SHARPIN. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of SHARPIN elisa kit 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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 165377121 |
| **NCBI GeneID** | 106025 |
| **NCBI Accession #** | NP_079616.2 |
| **UniProt Primary Accession #** | Q91WA6 |
| **UniProt Secondary Accession #** | Q7TNT3; Q8CHL3 |
| **UniProt Related Accession #** | Q91WA6 |
| **GenBank Nucleotide #** | NM_025340.2 |
| **NCBI Official Full Name** | sharpin |
| **NCBI Official Synonym Full Names** | SHANK-associated RH domain interacting protein |
| **NCBI Official Symbol** | Sharpin |
| **NCBI Official Synonym Symbols** | cpdm; SIPL1; RBCKL1; AW121341; 0610041B22Rik |
| **UniProt Protein Name** | Sharpin |
| **UniProt Synonym Protein Names** | Shank-associated RH domain-interacting protein; Shank-interacting protein-like 1; mSIPL1 |

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| **Protein Family** | Sharpin |
| **UniProt Gene Name** | Sharpin |
| **UniProt Synonym Gene Names** | Cpdm; Sipl1; mSIPL1 |
| **UniProt Entry Name** | SHRPN_MOUSE |
| **NCBI Protein Information** | sharpin; mSIPL1; shank-interacting protein-like 1; shank-associated RH domain-interacting protein; protein kinase C-interacting protein RBCC like 1 |
| **UniProt Comments for SHARPIN** | SHARPIN: 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. Self-associates. Interacts with SHANK1, EYA1 and EYA2. 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. 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. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Apoptosis<br><br>Cellular Component: nucleoplasm; dendrite; postsynaptic density; cytoplasm; synapse; cytosol; cell junction; nucleus<br><br>Molecular Function: identical protein binding; protein binding; zinc ion binding; metal ion binding; protein complex binding; polyubiquitin binding<br><br>Biological Process: mitochondrion organization and biogenesis; epidermis development; positive regulation of I-kappaB kinase/NF-kappaB cascade; apoptotic nuclear changes; keratinization; negative regulation of inflammatory response; protein homooligomerization |
| **Research Articles on SHARPIN** | **1.** SHARPIN controls lymphocyte migration by endogenously maintaining LFA-1 inactive to allow adjustable detachment of the uropods in polarized cells. |
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