

Recombinant Human ITSN1, His-tagged

Cat. No. ITSN1-28347TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 876-1232 of Human Intersectin 1 with N terminal His tag; Predicted MWt 40 kDa.
Species	Human
Source	E.coli
ProteinLength	876-1232 a.a.
Description	The protein encoded by this gene is a cytoplasmic membrane-associated protein that indirectly coordinates endocytic membrane traffic with the actin assembly machinery. In addition, the encoded protein may regulate the formation of clathrin-coated vesicles and could be involved in synaptic vesicle recycling. This protein has been shown to interact with dynamin, CDC42, SNAP23, SNAP25, SPIN90, EPS15, EPN1, EPN2, and STN2. Multiple transcript variants encoding different isoforms have been found for this gene, but the full-length nature of only two of them have been characterized so far.
Conjugation	HIS
Tissue specificity	Isoform 2 is ubiquitous in adult and fetal tissues with high expression in skeletal muscle, heart, spleen, ovary, testis and all fetal tissues tested and low expression in thymus, blood, lung, liver and pancreas. Isoform 1 is expressed almost exclusively
Form	Lyophilised:Reconstitute with 148 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	QPSLTVPSAGQLRQRSAFTPATATGSSPSPVLGQGEKVEG LQAQALYPWRAKKDN HLNFKNDVITVLEQQDMWWFGE VQGQKGWFPKSYVKLISGPIRKSTSMDSGSSE SPASLK RVASPAAPVVS GEEFIAMTYESSEQGDLTFQQGDVI LVTKKDGDWWT GTVGDKAGVFPSNYVRLKDSESGTAGKT GSLGKKPEIAQVIASYTATGPEQLTLA PGQLILIRKKN PGGWWE GELQARGKKRQIGWFPANYVKLLSPGTSKITP TEPPKST ALAAVCQVIGMYDYTAQNDD ELAFNKGQIIN VLNKEDPDWWKGEVNGQVGLFPSN YVKLT TDM DPSQQW CSDLHLLDMLT
Sequence Similarities	Contains 1 C2 domain. Contains 1 DH (DBL-homology) domain. Contains 2 EF-hand domains. Contains 2 EH domains. Contains 1 PH domain. Contains 5 SH3 domains.

GENE INFORMATION

Gene Name	ITSN1 intersectin 1 (SH3 domain protein) [Homo sapiens]
Official Symbol	ITSN1
Synonyms	ITSN1; intersectin 1 (SH3 domain protein); ITSN, SH3D1A; intersectin-1; human intersectin SH3 domain containing protein SH3P17; intersectin 1 short form variant 3; intersectin 1 short form variant; 11; intersectin short variant 12; MGC134948; MGC134949; S
Gene ID	6453
mRNA Refseq	NM_001001132

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Protein Refseq	NP_001001132
MIM	602442
Uniprot ID	Q15811
Chromosome Location	21q22.1-q22.2
Pathway	Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; EPHB forward signaling, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Internalization of ErbB1, organism-specific biosystem;
Function	Rho guanyl-nucleotide exchange factor activity; calcium ion binding; guanyl-nucleotide exchange factor activity; kinase activator activity; proline-rich region binding;