

Recombinant Human SLIT2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SLIT2-3960H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SLIT2 MS Standard C13 and N15-labeled recombinant protein (NP_004778) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the slit family of secreted glycoproteins, which are ligands for the Robo family of immunoglobulin receptors. Slit proteins play highly conserved roles in axon guidance and neuronal migration and may also have functions during other cell migration processes including leukocyte migration. Members of the slit family are characterized by an N-terminal signal peptide, four leucine-rich repeats, nine epidermal growth factor repeats, and a C-terminal cysteine knot. Proteolytic processing of this protein gives rise to an N-terminal fragment that contains the four leucine-rich repeats and five epidermal growth factor repeats and a C-terminal fragment that contains four epidermal growth factor repeats and the cysteine knot. Both full length and cleaved proteins are secreted extracellularly and can function in axon repulsion as well as other specific processes. Alternative splicing results in multiple transcript variants.
Molecular Mass	169.7 kDa
AA Sequence	MRGVGWQMLSLSLGLVLAILNKVAPQACPAQCSCSGSTVDCHGLALRSVPRNIPRN

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TERLDLNGNNITRITKTDFAGLRHLRVLQLMENKISTIERGAFQDLKELERLRLNRNHL
QLFPELLFLGTAKLYRLDLSENQIQAIKPRKAFRGAVDIKNLQLDYNQISCIEDGAFRAL
RDLEVLTLNNNNITRLSVASFNHMPKLRTFRLHSNNLYCDCHLAWLSDWLRQRPRV
GLYTQCMGPSHLRGHNVAEVQKREFVCSGHQSFMAPSCSVLHCPAACTCSNNIVD
CRGKGLTEIPTNLPETITEIRLEQNTIKVIPPGAFSPYKKLRRIDLSNNQISELAPDAFQ
GLRSLNSLVLYGNKITELPKSLFEGLFSLQLLLLNANKINCLRVDAFQDLHNLNLLSLY
DNKLQTIAGTFSPLRAIQTMHLAQNPFCDCHLKWLADYLHTNPIETSGARCTSPRR
LANKRIGQIKSKKFRCSAKEQYFIPGTEDYRSKLSGDCFADLACPEKCRCEGTTVDC
SNQKLNKIPHIPQYTAELRLNNEFTVLEATGIFKKLPQLRKINFSNNKITDIEEGAFE
GASGVNEILLTSNRLENVQHMKFGLKSLKTLMLRSNRITCVGNDSFIGLSSVRLLSL
YDNQITTVAPGAFDTLHSLSTLNLLANPFNCNCYLAWLGEWLRKKRIVTGNPRCQKP
YFLKEIPIQDVAIQDFTCDDGNDDNSCSPLSRCPTTECTCLDTVVRC SNKGLKVLPGKI
PRDVTELYLDGNQFTLVPKELS NYKHLTLIDLSNNRISTLSNQSF SNMTQLLTILSYN
RLRCIPPRTFDGLKSLRLLSLHGNDISVVPEGAFNDLSALSHLAIGANPLYCDCNMQ
WLSDWVKSEYKEPGIARCAGPGEMADKLLLTTPSKKFTCQGPVDVNILAKCNPCLS
NPCKNDGTCNSDPVDFYRCTCPYGFKGQDCDVPIHACISNPCKHGGTCHLKEGEE
DGFWCICADGFEGENCEVNVDDCEDNDCENNSTCVDGINNYTCLCPPEYTGECE
VKLDFCAQDLNPCQHDSKILTPKGFKCDCTPGYVGEHCDIDFDDCQDNKCKNGAH
CTDAVNGYTCICPEGYSGLFCEFSPPMVLPRTPCDNFDCQNGAQCVIRINEPICQC
LPGYQGEKCEKLVSVNFINKESYLQIPSAKVRPQTNITLQIATDEDSGILLYKGDKDHI
AVELYRGRVRASYDTGSHPASAIYSVETINDGNFHVIVELLALDQSLSLSDGGNPKIIT
NLSKQSTLNFDSPLYVGGMPGKSNVASLRQAPGQNGTSFHGCIRNLYINSELQDFQ
KVPMQTGILPGCEPCHKKVCAHGTCQPSSQAGFTCECQEGWMGPLCDQRTNDPC
LGKNCVHGTCLPINAFSYSCKCLEGHGGVLCDEEEDLFNPCQAIKCKHKGKRLSGL
GQPYCECSSGYTGDSCDREISCRGERIRDYYQKQQGYAACQTTKKVSRLECRGGC
AGGQCCGPLRSKRRKYSFECTDGSSFVDEVEKVVKCGCTRCVSTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

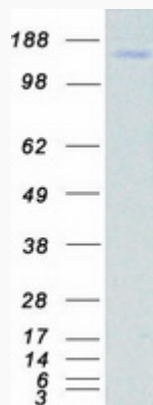
GENE INFORMATION

Gene Name	SLIT2 slit guidance ligand 2 [Homo sapiens (human)]
Official Symbol	SLIT2
Synonyms	SLIT2; slit homolog 2 (Drosophila); SLIL3, slit (Drosophila) homolog 2; slit homolog 2 protein; Slit 2; SLIL3; Slit-2; FLJ14420;
Gene ID	9353
mRNA Refseq	NM_004787
Protein Refseq	NP_004778
MIM	603746
UniProt ID	O94813

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SDS-PAGE

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