

Recombinant Human BAIAP2L1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BAIAP2L1-5575H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BAIAP2L1 MS Standard C13 and N15-labeled recombinant protein (NP_061330) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the IMD (IRSp53/MIM homology domain) family. Members of this family can be subdivided in two groups, the IRSp53-like and MIM-like, based on the presence or absence of the SH3 (Src homology 3) domain. The protein encoded by this gene contains a conserved IMD, also known as F-actin bundling domain, at the N-terminus, and a canonical SH3 domain near the C-terminus, so it belongs to the IRSp53-like group. This protein is the substrate for insulin receptor tyrosine kinase and binds to the small GTPase Rac. It is involved in signal transduction pathways that link deformation of the plasma membrane and remodeling of the actin cytoskeleton. It also promotes actin assembly and membrane protrusions when overexpressed in mammalian cells, and is essential to the formation of a potent actin assembly complex during EHEC (Enterohemorrhagic Escherichia coli) pedestal formation.
Molecular Mass	56.9 kDa
AA Sequence	MSRGPEEVNRLTESTYRNVMEQFNPGLRNLINLGKNYEKAVNAMILAGKAYYDGVA

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KIGEIATGSPVSTELGHVLEISSTHKKLNESLDENFKKFHKEIHELEKKIELDVKYMNA
 TLKRYQTEHKNKLESLEKSQAELKKIRRKSSQGSRNALKYEHKEIEYVETVTSRQSEIQ
 KFIADGCKEALLEEKRRFCFLVDKHCGFANHIHYYHLQSAELLNSKLPRWQETCVDA
 IKVPEKIMNMIEEIKTPASTPVSGTPQASPMIERSNVVRKDYDTLSKCSPKMPPAPSG
 RAYTSPLIDMFNNPATAAPNSQRVNNSTGTSEDPSLQRSVSVATGLNMMKKQKVKT
 IFPHTAGSNKTLLSFAQGDVITLLIPEEKDGWLYGEHDVSKARGWFPSSYTKLLEENE
 TEAVTVPTSPSTPVRSISTVNLSSENSSVIPPPDYLECLSMGAAADRRADSARTTSTF
 KAPASKPETAAPNDANGTAKPPFLSGENPFATVKLRPTVTNDRSAPIIRTRTRPLEQK
 LISEEDLAANDILDYKDDDDKV

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

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 BAIAP2L1 BAI1-associated protein 2-like 1 [Homo sapiens (human)]

Official Symbol BAIAP2L1

Synonyms BAIAP2L1; BAI1-associated protein 2-like 1; brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1; IRTKS; BAI1-associated protein 2-like protein 1; insulin receptor tyrosine kinase substrate; FLJ42275;

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Gene ID	55971
mRNA Refseq	NM_018842
Protein Refseq	NP_061330
MIM	611877
UniProt ID	Q9UHR4
SDS-PAGE	