

Recombinant Human BAIAP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BAIAP2-5938H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BAIAP2 MS Standard C13 and N15-labeled recombinant protein (NP_059345) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene has been identified as a brain-specific angiogenesis inhibitor (BAI1)-binding protein. This adaptor protein links membrane bound G-proteins to cytoplasmic effector proteins. This protein functions as an insulin receptor tyrosine kinase substrate and suggests a role for insulin in the central nervous system. It also associates with a downstream effector of Rho small G proteins, which is associated with the formation of stress fibers and cytokinesis. This protein is involved in lamellipodia and filopodia formation in motile cells and may affect neuronal growth-cone guidance. This protein has also been identified as interacting with the dentatorubral-pallidoluysian atrophy gene, which is associated with an autosomal dominant neurodegenerative disease. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	60.7 kDa
AA Sequence	MSLSRSEEMHRLTENVYKTIMEQFNPSLRNFIAMGKNYEKALAGVTYAAKG YFDALV KMGELASESQGSKE LGDVL FQMAEVHRQIQNQLEEMLKSFHNELLTQLEQKVELDS

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RYLSAALKKYQTEQRSKGDALDKCQAEKLRKKSQGSKNPQKYSDKELQYIDAISN
 KQGELENYVSDGYKTALTEERRRFCFLVEKQCAVAKNSAAYHSGKELLAQKLPLW
 QQACADPSKIPERAVQLMQQVASNGATLPSALSASKSNLVISDPIPGAKPLPVPPEL
 APFVGRMSAQESTPIMNGVTGPDGEDYSPWADRKAAQPKSLSPQSQSKLSDSYS
 NTLPVRKSVTPKNSYATTENKTLPRSSSMAAGLERNRMRVKAIFSHAAGDNSTLLS
 FKEGDLITLLVPEARDGWHYGESEKTKMRGWFPFSYTRVLDSGSDRLHMSLQQG
 KSSSTGNLLDKDDLAIPPPDYGAASRAFPAAQTASGFKQRPYSVAVPAFSQGLDDYG
 ARMSRNPFAHVQLKPTVTNDRCDLSAQGPEGREHGDGSARTLAGRTRTRPLEQK
 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 BAIAP2 BAI1-associated protein 2 [Homo sapiens (human)]

Official Symbol BAIAP2

Synonyms BAIAP2; BAI1-associated protein 2; brain-specific angiogenesis inhibitor 1-associated protein 2; BAP2; IRS-58; IRSp53/58; fas ligand-associated factor 3; insulin receptor substrate p53/p58; insulin receptor substrate protein of 53 kDa; FLAF3; IRSP53;

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Gene ID	10458
mRNA Refseq	NM_017451
Protein Refseq	NP_059345
MIM	605475
UniProt ID	Q9UQB8
SDS-PAGE	