

Recombinant Human BAIAP2, His-tagged

Cat. No. BAIAP2-27437TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human BAIAP2 with C terminal His tag; 530 aa, 58.4kDa.
Species	Human
Source	E.coli
ProteinLength	522 amino acids
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.
Conjugation	HIS
Molecular Weight	58.400kDa inclusive of tags
Tissue specificity	Isoform 1 and isoform 4 are expressed almost exclusively in brain. Isoform 4 is barely

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	detectable in placenta, prostate and testis. A short isoform is ubiquitous, with the highest expression in liver, prostate, testis and placenta.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 30% Glycerol, 0.32% Tris HCl, 0.02% DTT, 0.58% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSLSRSEEMH RLTENYKTI MEQFNPSLRN FIAMGKNYEK ALAGVTYAAK GYFDALVKMG ELASESQGSK ELGDVLFQMA EVHRQIQNQL EEMLKSFHNE LLTQLEQKVE LDSRYLSAAL KKYQTEQRSK GDALDKCQAE LKKLRKKSQG SKNPQKYSDK ELQYIDAIN KQGELENYVSDGYKTALTEE RRRFCFLVEK QCAVAKNSAA YHSGKGELLA QKLPLWQQAC ADPSKIPERA VQLMQQVASN GATLPSALSA SKSNLVISDP IPGAKPLPVP PELAPFVGRM SAQESTPIMN GVTGPDGEDY SPWADRKAAQ PKSLSP PQSQ SKLSDSYSNT LPVRKSVTPK NSYATTAENKTLPRSSMAA GLERNGRMRV KAIFSHAAGD NSTLLSFKEG DLITLLVPEA RDGWHYGESE KTKMRGWFPF SYTRVLDS DG SDRLHMSLQQ GKSSSTGNLL DKDDLAIPPP DYGAASRAFP AQTASGFKQR PYSVAVPAFS QGLDDYGARS MSSGSGTLVS TVVEHHHHHH
Sequence Similarities	Contains 1 IMD (IRSp53/MIM homology) domain. Contains 1 SH3 domain.
GENE INFORMATION	
Gene Name	BAIAP2 BAI1-associated protein 2 [Homo sapiens]

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Official Symbol	BAIAP2
Synonyms	BAIAP2; BAI1-associated protein 2; brain-specific angiogenesis inhibitor 1-associated protein 2; BAP2;
Gene ID	10458
mRNA Refseq	NM_001144888
Protein Refseq	NP_001138360
MIM	605475
Uniprot ID	Q9UQB8
Chromosome Location	17q25
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; CDC42 signaling events, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; RAC1 signaling pathway, organism-specific biosystem;
Function	SH3 domain binding; cytoskeletal adaptor activity; proline-rich region binding; protein C-terminus binding; protein binding;