

AR50198PU-N**Human BAIAP2 (1-522, His-tag) - Purified****Alternate names:**

BAI-associated protein 2, BAI1-associated protein 2, BAP2, Brain-specific angiogenesis inhibitor 1-associated protein 2, FLAF3, Fas ligand-associated factor 3, IRS-58, IRSp53, IRSp53/58, Insulin receptor substrate p53, Insulin receptor substrate p53/p58, Insulin receptor substrate protein of 53 kDa

Quantity:

0.5 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

BAI1-associated protein 2, also known as BAIAP2, is a ubiquitous regulator of the actin cytoskeleton. It mediates filopodia formation under the control of Rho-family GTPases. BAIAP2 is expressed in the cytoplasm and links small 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 has also been identified as interacting with the dentatorubral-pallidoluysian atrophy gene, which is associated with an autosomal dominant neurodegenerative disease.

Uniprot ID:[Q9UQB8](#)**NCBI:**[NP_002582.3](#)**GenElD:**[10458](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl**Description:**

Recombinant human BAIAP2 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MSLSRSEEMH RLTENVKTI MEQFNPSLRN FIAMGKNEYK ALAGVTYAAK GYFDALVKMG
ELASESQGSK ELGDVLFQMA EVHRQIQNQL EEMLKSFHNE LLTQLEQKVE LDSRYLSAAL
KKYQTEQRSK GDALDKQAE LKCLRKKSQG SKNPQKYSKD ELQYIDAISN KQGELENYVS
DGYKTALTEE RRRFCFLVEK QCAVAKNSAA YHSGKELLA QKLPLWQQAC ADPSKIPERA
VQLMQQVASN GATLPSALSA SKSNLVISDP IPGAKPLPVP PELAPFVGRM SAQESTPIMN
GVTGPDGEDY SPWADRKAAQ PKSLSPPQSQ SKLSDSYSNT LPVRKSVTPK NSYATTAENK
TLPRSSMAA GLERNRMRV KAIFSHAAGD NSTLLSFKEG DLITLLVPEA RDGWHYGESE
KTKMRGWFPF SYTRVLDSG SDRLHMSLQQ GKSSSTGNLL DKDDLAIPPP DYGAASRAFP
AQTASGFKQR PYSVAVPAFS QGLDDYGARS MSSSGTTLVS TVVEHHHHHH

Molecular weight: 58.4 kDa (530aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Funato Y., et al. (2004) *Cancer Res.* 64:5237-5244. Choi J., et al. (2005) *J Neurosci.* 25:869-879.

Pictures:

