

## BAIAP2 recombinant protein

BAIAP2, 1-522aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48763</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

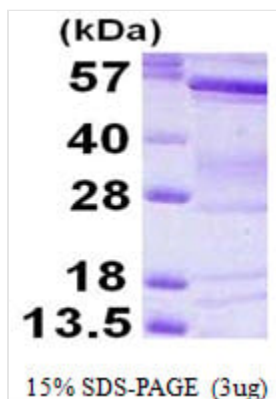
### PRODUCT SYNONYMS

BAIAP2; 1-522aa; Human; His tag; E Coli; BAI1-associated protein 2; BAP2; IRSP53; BAIAP2 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Host                                                   | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification                                    | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format                                            | Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concentration                                          | 0.5 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                                               | MSLSRSEEMH RLTEENVYKTI MEQFNPSLRN FIAMGKNYEK ALAGVTYAAK GYFDALVKMG ELASESQGSK ELGDVLFQMA EVHRQIQNQL EEMLSFHNE LLTQLEQKVE LDSRYLSAAL KKYQTEQRSK GDALDKCQAE LKKLRKKSQG SKNPQKYSDK ELQYIDASN KQGELENYVS DGYKTALTEE RRRFCFLVEK QCAVAKNSAA YHSGKELLA QKLPLWQQAC ADPSKIPERA VQLMQQVASN GATLPSALSA SKSNLVISDP IPGAKPLPVP PELAPFVGRM SAQESTPIMN GVTGPDGEDY SPWADRKAAQ PKSLSPQSQ SKLSDSYSNT LPVRKSVTPK NSYATTAENK TLPRSSMAA GLERNRMRV KAIFSHAAGD NSTLLSFKEG DLITLLVPEA RDGWHYGESE KTKMRGWFPF SYTRVLDSGD SDRLHMSLQQ GKSSSTGNLL DKDDLAIPPP DYGAASRAFP AQTASGFKQR PYSVAVPAFS QGLDDYGARS MSSSGTLVS TVVEHHHHHH |
| Sequence Length                                        | 522                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for BAIAP2 recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Antigen Species                                        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tag Information                                        | His-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                                | Can be stored at 4 degree C short term (1-2 weeks).<br>For long term storage, aliquot and store at -20 degree C or -70 degree C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                  |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for BAIAP2 recombinant protein | 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. Recombinant human BAIAP2 protein, fused to His-tag at C-terminus, was expressed in E Coli and purified by using conventional chromatography techniques. |
| Product Categories/Family for BAIAP2 recombinant protein   | Cytoskeleton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| References                                                 | Funato Y., et al. (2004) Cancer Res. 64:5237-5244.; Choi J., et al. (2005) J Neurosci. 25:869-879.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 15559320                                                                                                                            |
| NCBI GeneID                      | 10458                                                                                                                               |
| Molecular Weight                 | 58.4 kDa (530aa)                                                                                                                    |
| NCBI Official Full Name          | BAI1-associated protein 2                                                                                                           |
| NCBI Official Synonym Full Names | BAI1 associated protein 2                                                                                                           |
| NCBI Official Symbol             | BAIAP2                                                                                                                              |
| NCBI Official Synonym Symbols    | BAP2; FLAF3; IRSP53                                                                                                                 |
| NCBI Protein Information         | brain-specific angiogenesis inhibitor 1-associated protein 2                                                                        |
| UniProt Protein Name             | Brain-specific angiogenesis inhibitor 1-associated protein 2                                                                        |
| UniProt Gene Name                | BAIAP2                                                                                                                              |
| UniProt Synonym Gene Names       | BAI-associated protein 2; BAI1-associated protein 2; Protein BAP2; FLAF3; IRS-58; IRSp53/58; IRSp53; Insulin receptor substrate p53 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.