

# Recombinant Human BAI1-Associated Protein 2, His-tagged

**Cat. No.** BAIAP2-1373H    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>        | Recombinanthuman BAIAP2protein, fused to His-tag at C-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.                                                                                                                                                                                                                                    |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>                  | E.coli                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>             | BAIAP2 is aubiquitous regulator of the actin cytoskeleton. It mediates filopodiaformation under the control of Rho-family GTPases. BAIAP2 is expressed in thecytoplasm and links small membrane-bound G-proteins to cytoplasmic effectorproteins. This protein functions as an insulin receptor tyrosine kinasesubstrate and suggests a role for insulin in the central nervous system. |
| <b>Form</b>                    | Liquid. In 20 mMTris-HCl buffer (pH 8.0) containing 1 mM DTT, 30% glycerol, 0.1M NaCl.                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Weight</b>        | 58.4 kDa(530 aa)                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                  | > 90%by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>           | 0.5mg/ml(determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequences of aminoacids</b> | MSLSRSEEMHRLTENVKTI MEQFNPSLRN FIAMGKNYEK ALAGVTYAAK GYFDA<br>LVKMG ELASESQGSK ELGDVLFQMAEVHRQIQNQLEEMLKSFHNELLTQLEQKVE<br>LDSRYLSAAL KKYQTEQRSK GDALDKCQAE LKKLRKKSQG SKNPQKYSKD ELQY                                                                                                                                                                                                  |

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IDAISNKQGELENYVS DGYKTALTEE RRRFCFLVEK QCAVAKNSAA YHSGKGKELL  
 A QKLPLWQQAC ADPSKIPERAVQLMQQVASN GATLPSALSA SKSNLVISDP IPGA  
 KPLPVPPELAPFVGRM SAQESTPIMN GVTGPDGEDY SPWADRKAAQ PKSLSPPPQ  
 SQ SKLSDSYSNT LPVRKSVTPKNSYATTAENK TLPRSSSMAA GLERNGRMRV KA  
 IFSHAAGD NSTLLSFKEG DLITLLVPEA RDGWHYGESEKTKMRGWFPF SYTRVLD  
 SDG SDRLHMSLQQ GKSSSTGNLLDKDDLAIPPP DYGAASRAFP AQTASGFKQR P  
 YSVAVPAFS QGLDDYGARS MSSGSGTLVS TVVEHHHHHH

**Storage**

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Adherensjunction; CDC42 signaling events; ErbB1 downstream signaling; RAC1 signalingpathway; Regulation of Actin Cytoskeleton

## GENE INFORMATION

**Gene Name**

BAIAP2 BAI1-associated protein2 [ Homo sapiens ]

**Official Symbol**

BAIAP2

**Synonyms**

BAIAP2;BAI1-associated protein 2; BAP2; FLAF3; IRSP53 brain-specificangiogenesis inhibitor 1-associated protein 2; IRS-58; IRSp53/58; fasligand-associated factor 3; insulin receptor substrate p53/p58; insulinreceptor substrate protein of 53 kDa

**Gene ID**

10458

**mRNA Refseq**

NM\_001144888

**Protein Refseq**

NP\_001138360

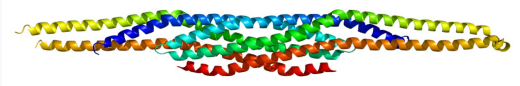
**MIM**

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|                              |                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| UniProt ID                   | Q9UQB8                                                                                                                       |
| Chromosome Location          | 17q25                                                                                                                        |
| Function                     | SH3domain binding; cytoskeletal adaptor activity ; proline-rich region binding ;protein C-terminus binding ; protein binding |
| PDB rendering based on 1wdz. |                                            |