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# Recombinant human BAIAP2 protein

Catalog Number: ATGP1373

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-522aa

#### UniProt No.

**09U0B8** 

#### **NCBI Accession No.**

AAH14020.1

#### **Alternative Names**

BAI1-associated protein 2, BAP2, IRSP53

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

58.4 kDa (530aa)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM MES (pH 5.0) containing, 30% glycerol, 0.2M NaCl

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

### **Description**

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



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expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

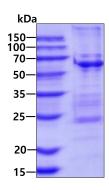
MSLSRSEEMH RLTENVYKTI MEQFNPSLRN FIAMGKNYEK ALAGVTYAAK GYFDALVKMG ELASESQGSK ELGDVLFQMA EVHRQIQNQL EEMLKSFHNE LLTQLEQKVE LDSRYLSAAL KKYQTEQRSK GDALDKCQAE LKKLRKKSQG SKNPQKYSDK ELQYIDAISN KQGELENYVS DGYKTALTEE RRRFCFLVEK QCAVAKNSAA YHSKGKELLA QKLPLWQQAC ADPSKIPERA VQLMQQVASN GATLPSALSA SKSNLVISDP IPGAKPLPVP PELAPFVGRM SAQESTPIMN GVTGPDGEDY SPWADRKAAQ PKSLSPPQSQ SKLSDSYSNT LPVRKSVTPK NSYATTAENK TLPRSSSMAA GLERNGRMRV KAIFSHAAGD NSTLLSFKEG DLITLLVPEA RDGWHYGESE KTKMRGWFPF SYTRVLDSDG SDRLHMSLQQ GKSSSTGNLL DKDDLAIPPP DYGAASRAFP AQTASGFKQR PYSVAVPAFS QGLDDYGARS MSSGSGTLVS TV<VEHHHHHH>

#### **General References**

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

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

