

## Product datasheet for **TA503013BM**

### **BAIAP2 Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1F4]**

#### **Product data:**

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI1F4   |
| Applications:           | FC, IF, WB   |
| Recommended Dilution:   | WB 1:2000, IF 1:100, FLOW 1:100  |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human BAIAP2(NP_006331) produced in HEK293 cell.  |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol.  |
| Concentration:          | 0.5 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | HRP  |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 57.3 kDa   |
| Gene Name:              | BAR/IMD domain containing adaptor protein 2  |
| Database Link:          | <a href="#">NP_006331</a><br><a href="#">Entrez Gene 108100 Mouse</a> <a href="#">Entrez Gene 117542 Rat</a> <a href="#">Entrez Gene 10458 Human</a><br><a href="#">Q9UQB8</a> |



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**Background:**

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.

**Synonyms:**

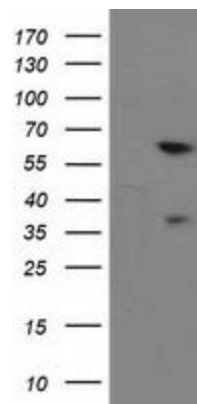
BAP2; FLAF3; IRSP53

**Protein Families:**

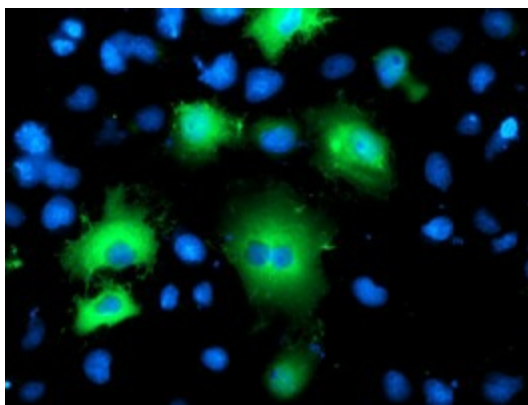
Druggable Genome

**Protein Pathways:**

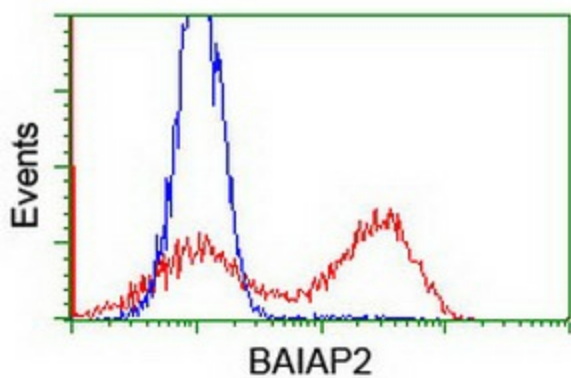
Adherens junction, Regulation of actin cytoskeleton

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BAIAP2 ([RC214570], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BAIAP2. Positive lysates [LY401909] (100ug) and [LC401909] (20ug) can be purchased separately from OriGene.



Anti-BAIAP2 mouse monoclonal antibody ([TA503013]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BAIAP2 ([RC214570]).



HEK293T cells transfected with either [RC214570] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-BAIAP2 antibody ([TA503013]), and then analyzed by flow cytometry.