

Product datasheet for **TA503342S**

BAIAP2 Mouse Monoclonal Antibody [Clone ID: OTI1C10]

Product data:

| | |
|--------------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI1C10 |
| Applications: | FC, IF, WB |
| Recommended Dilution: | WB 1:2000, IF 1:100, FLOW 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human BAIAP2(NP_005331) produced in HEK293 cell. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| 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: | NP_006331 Entrez Gene 108100 MouseEntrez Gene 117542 RatEntrez Gene 10458 Human Q9UQB8 |



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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:

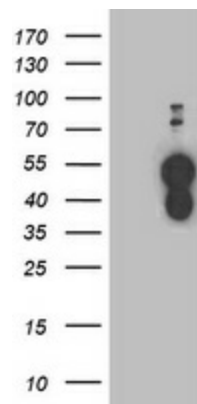
BAP2; FLAF3; IRSP53

Protein Families:

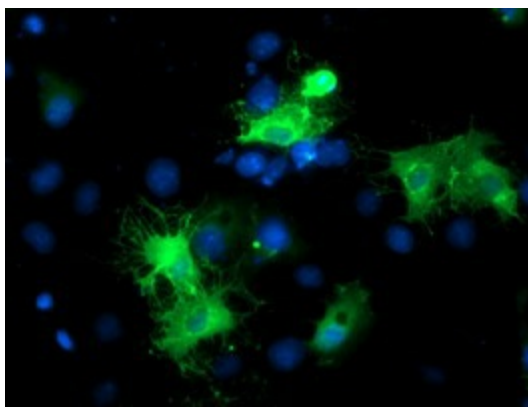
Druggable Genome

Protein Pathways:

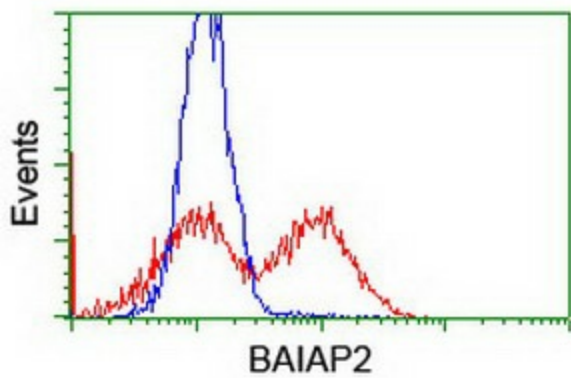
Adherens junction, Regulation of actin cytoskeleton

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 ([TA503342]) 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 ([TA503342]), and then analyzed by flow cytometry.