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Product datasheet for CF502981

BAIAP2 Mouse Monoclonal Antibody [Clone ID: OTI 1D9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI 1D9
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, 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 HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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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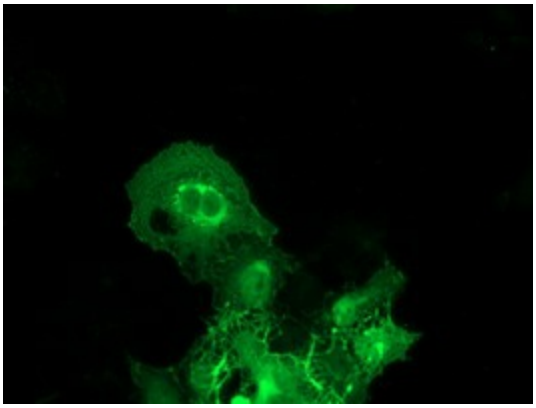
Background: The protein encoded by this gene has been identified as a brain-specific angiogenesis inhibitor (BAI1)-binding protein. This adaptor protein links membrane bound G-proteins to cytoplasmic effector proteins. This protein functions as an insulin receptor tyrosine kinase substrate and suggests 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. [provided by RefSeq, Jan 2009]

Synonyms: BAP2; FLAF3; IRSP53

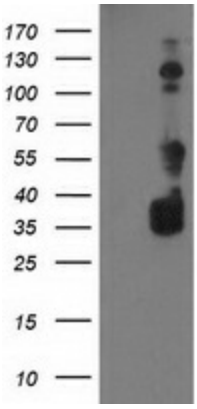
Protein Families: Druggable Genome

Protein Pathways: Adherens junction, Regulation of actin cytoskeleton

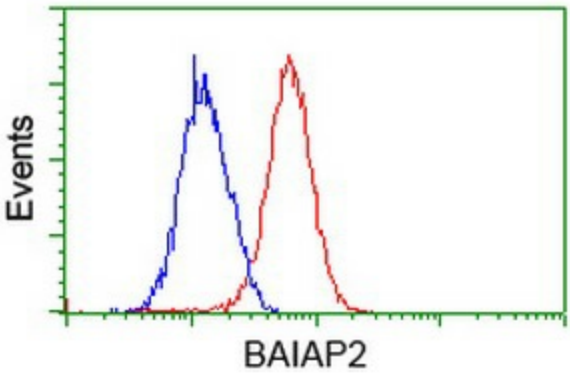
Product images:



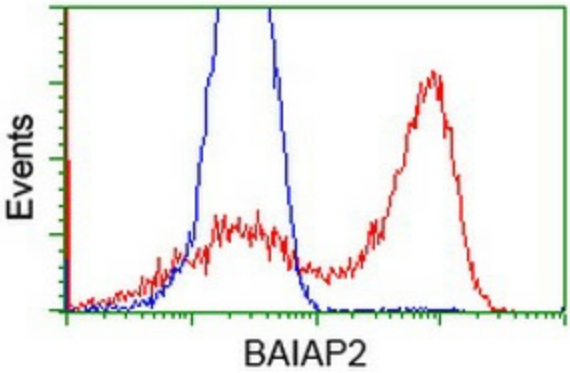
Anti-BAIAP2 mouse monoclonal antibody ([TA502981]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY BAIAP2 ([RC214570]).



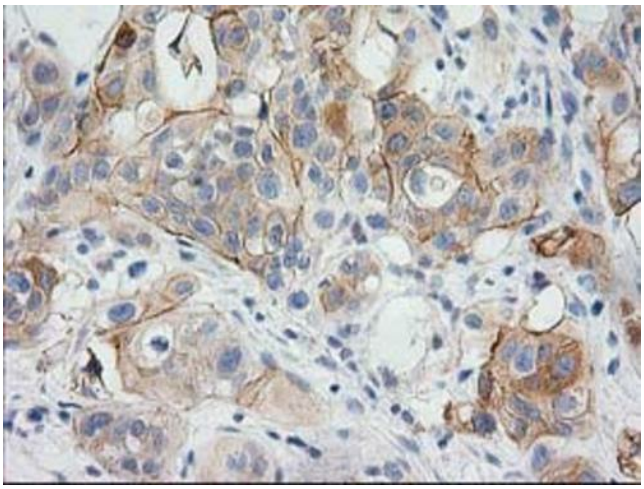
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY BAIAP2 (Cat# [RC214570], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BAIAP2 (Cat# [TA502981]). Positive lysates [LY401909] (100ug) and [LC401909] (20ug) can be purchased separately from OriGene.



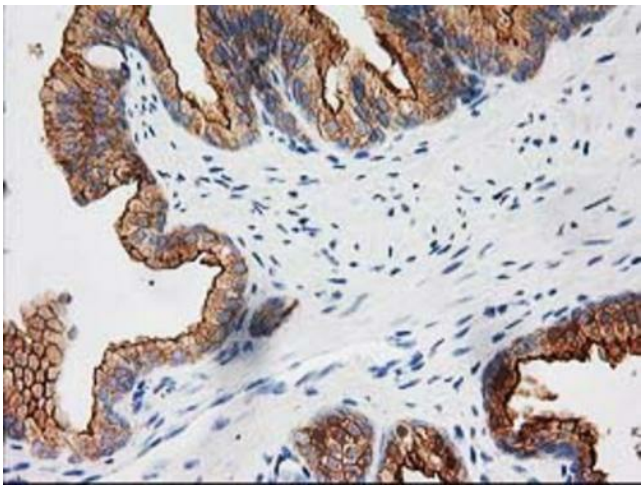
Flow cytometric Analysis of Hela cells, using anti-BAIAP2 antibody ([TA502981]), (Red), compared to a nonspecific negative control antibody, (Blue).



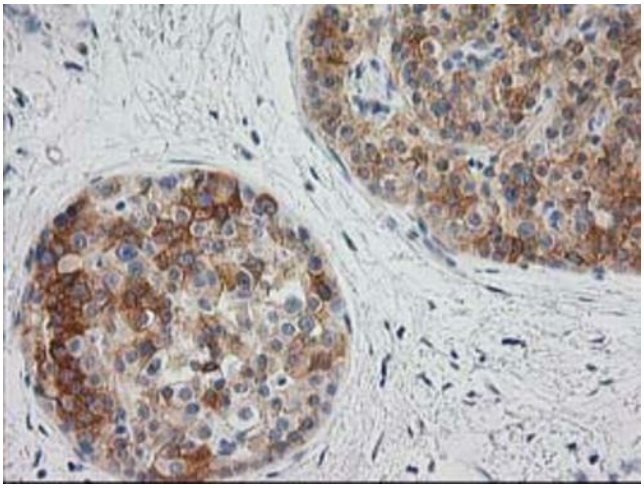
HEK293T cells transfected with either [RC214570] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-BAIAP2 antibody ([TA502981]), and then analyzed by flow cytometry.



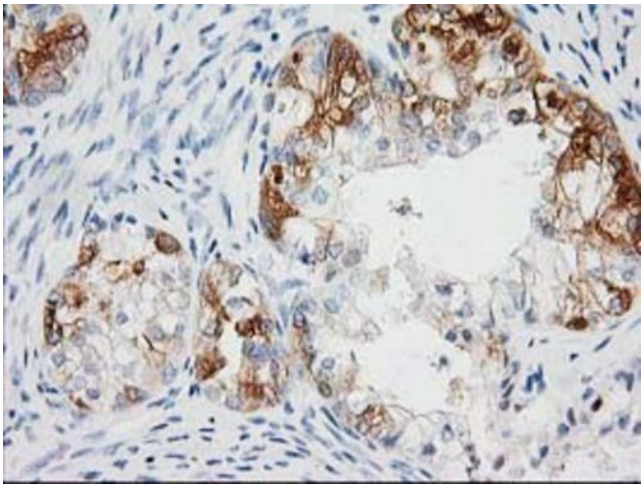
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-BAIAP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502981])



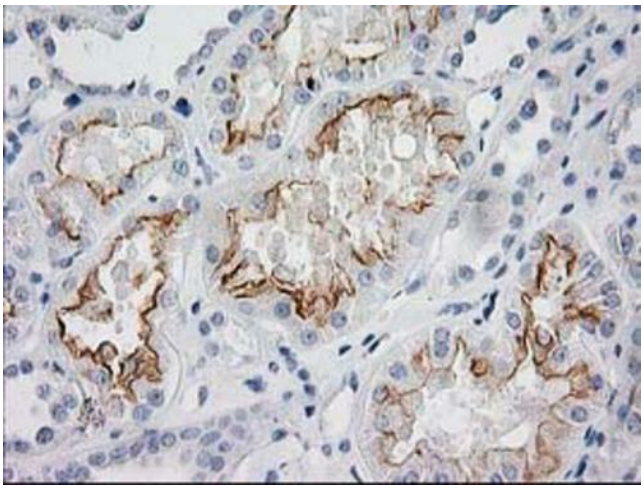
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-BAIAP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502981])



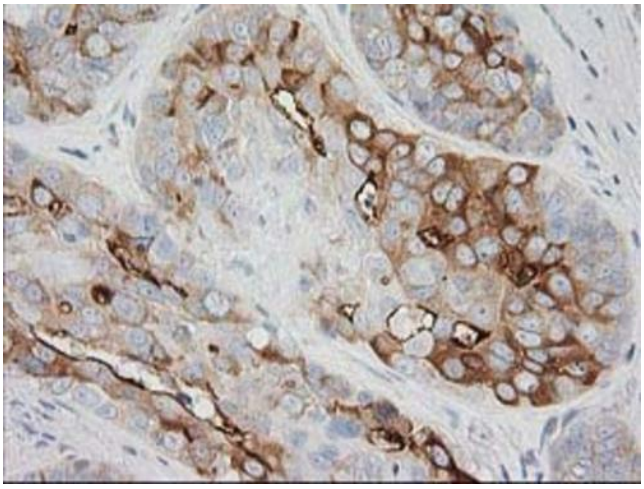
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-BAIAP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502981])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-BAIAP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502981])



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-BAIAP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502981])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-BAIAP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502981])