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BAIAP2 Antibody (C-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2227b

Product Information

Application	WB, E
Primary Accession	Q9UQB8
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Names	1037CT15.1.3
Calculated MW	60868

Additional Information

Gene ID	10458
Other Names	Brain-specific angiogenesis inhibitor 1-associated protein 2, BAI-associated protein 2, BAI1-associated protein 2, Protein BAP2, Fas ligand-associated factor 3, FLAF3, Insulin receptor substrate p53/p58, IRS-58, IRSp53/58, Insulin receptor substrate protein of 53 kDa, IRSp53, Insulin receptor substrate p53, BAIAP2
Target/Specificity	Purified His-tagged BAIAP2 protein was used to produced this monoclonal antibody.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BAIAP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BAIAP2 {ECO:0000303|PubMed:10343108, ECO:0000312|HGNC:HGNC:947}
Function	Adapter protein that links membrane-bound small G proteins to cytoplasmic effector proteins. Necessary for CDC42-mediated reorganization

	of the actin cytoskeleton and for RAC1-mediated membrane ruffling. Involved in the regulation of the actin cytoskeleton by WASF family members and the Arp2/3 complex. Plays a role in neurite growth, neuronal differentiation and neuronal migration (PubMed:41133935). Acts syngeristically with ENAH to promote filipodia formation. Plays a role in the reorganization of the actin cytoskeleton in response to bacterial infection. Participates in actin bundling when associated with EPS8, promoting filopodial protrusions (PubMed:41133935).
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein. Cell projection, filopodium. Cell projection, ruffle. Cytoplasm, cytoskeleton. Note=Detected throughout the cytoplasm in the absence of specific binding partners. Detected in filopodia and close to membrane ruffles. Recruited to actin pedestals that are formed upon infection by bacteria at bacterial attachment sites
Tissue Location	Isoform 1 and isoform 4 are expressed almost exclusively in brain. Isoform 4 is barely detectable in placenta, prostate and testis. A short isoform is ubiquitous, with the highest expression in liver, prostate, testis and placenta

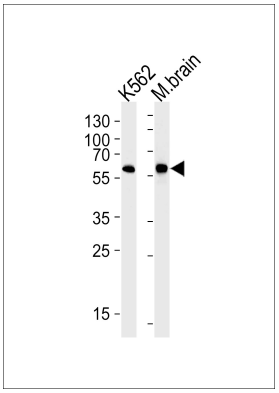
Background

Adapter protein that links membrane-bound small G-proteins to cytoplasmic effector proteins. Necessary for CDC42-mediated reorganization of the actin cytoskeleton and for RAC1-mediated membrane ruffling. Involved in the regulation of the actin cytoskeleton by WASF family members and the Arp2/3 complex. Plays a role in neurite growth. Acts syngeristically with ENAH to promote filipodia formation. Plays a role in the reorganization of the actin cytoskeleton in response to bacterial infection.

References

Oda K., et al. Cytogenet. Cell Genet. 84:75-82(1999).
Okamura-Oho Y., et al. Hum. Mol. Genet. 8:947-957(1999).
Miyahara A., et al. J. Hum. Genet. 48:410-414(2003).
Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Hachiya T., et al. Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.

Images



BAIAP2 Antibody (C-term)(Cat. #AM2227b) western blot analysis in K562 cell line and mouse brain tissue lysates (35µg/lane).This demonstrates the BAIAP2 antibody detected the BAIAP2 protein (arrow).

Citations

- Arc mediates intercellular tau transmission via extracellular vesicles.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.