

BAIAP2L2 (E-17): sc-86304

BACKGROUND

The Src homology 3 (SH3) domain is a highly conserved, 60 amino acid protein domain that is organized into a β -barrel fold consisting of 5 or 6 β strands arranged as 2 tightly packed anti-parallel β sheets. This domain is found in proteins that mediate assembly of specific protein complexes and interact with other proteins, specifically recognizing proline-rich regions. BAIAP2L2 (brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 2) is a 529 amino acid protein containing an SH3 domain, suggesting that it may function as an adaptor protein. BAIAP2L2 also contains an IMD (IRSp53/MIM) domain, which enables the protein to bind to and bundle Actin filaments, as well as bind to membranes and interact with Rac GTPase. There are two named isoforms of BAIAP2L2 produced as a result of alternative splicing events.

REFERENCES

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- Clark, H.F., et al. 2003. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. *Genome Res.* 13: 2265-2270.
- Funato, Y., et al. 2004. IRSp53/Eps8 complex is important for positive regulation of Rac and cancer cell motility/invasiveness. *Cancer Res.* 64: 5237-5244.
- Millard, T.H., et al. 2005. Structural basis of filopodia formation induced by the IRSp53/MIM homology domain of human IRSp53. *EMBO J.* 24: 240-250.
- Kudo, S., et al. 2007. Inhibition of tumor growth through suppression of angiogenesis by brain-specific angiogenesis inhibitor 1 gene transfer in murine renal cell carcinoma. *Oncol. Rep.* 18: 785-791.
- Ren, S., et al. 2008. The conservation pattern of short linear motifs is highly correlated with the function of interacting protein domains. *BMC Genomics* 9: 452.

CHROMOSOMAL LOCATION

Genetic locus: BAIAP2L2 (human) mapping to 22q13.1; Baiap2l2 (mouse) mapping to 15 E1.

SOURCE

BAIAP2L2 (E-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of BAIAP2L2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86304 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

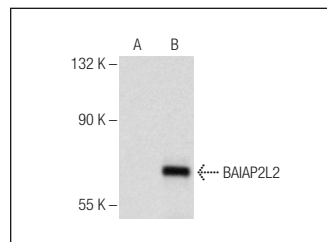
BAIAP2L2 (E-17) is recommended for detection of BAIAP2L2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BAIAP2L2 siRNA (h): sc-72606, BAIAP2L2 siRNA (m): sc-141467, BAIAP2L2 shRNA Plasmid (h): sc-72606-SH, BAIAP2L2 shRNA Plasmid (m): sc-141467-SH, BAIAP2L2 shRNA (h) Lentiviral Particles: sc-72606-V and BAIAP2L2 shRNA (m) Lentiviral Particles: sc-141467-V.

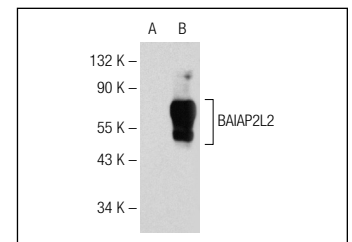
Molecular Weight of BAIAP2L2: 59 kDa.

Positive Controls: BAIAP2L2 (h): 293T Lysate: sc-375057 or BAIAP2L2 (m): 293T Lysate: sc-118670.

DATA



BAIAP2L2 (E-17): sc-86304. Western blot analysis of BAIAP2L2 expression in non-transfected: sc-117752 (A) and human BAIAP2L2 transfected: sc-375057 (B) 293T whole cell lysates.



BAIAP2L2 (E-17): sc-86304. Western blot analysis of BAIAP2L2 expression in non-transfected: sc-117752 (A) and mouse BAIAP2L2 transfected: sc-118670 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **BAIAP2L2 (C-9): sc-377396**, our highly recommended monoclonal alternative to BAIAP2L2 (E-17).