

BAIAP2L1 (F-9): sc-393838

BACKGROUND

BAIAP2L1 (brain-specific angiogenesis inhibitor 1-associated protein 2-like 1), also known as IRTKS (Insulin receptor tyrosine kinase substrate), is a widely expressed, 511 amino acid protein with predominant expression in liver, testis, bladder, lung and heart. It contains one IMD (IRSp53/MTSS1 homology) domain, one SH3 domain and a C-terminal region that is similar to a WH2 domain. Other proteins containing the IMD domain, such as IRSp53 and MTSS1, are known to participate in Actin filament bundling and induction of filopodia-like protrusions. BAIAP2L1 is closely related to IRSp53 but, unlike the filopodia-like protrusions caused by IRSp53, expression of BAIAP2L1 results in short Actin clusters around the periphery of the cell. Similar to IRSp53, BAIAP2L1 is a substrate for the Insulin receptor (Insulin R) and undergoes tyrosine phosphorylation upon stimulation with Insulin. In addition, BAIAP2L1 is capable of binding Rac via its N-terminal IMD domain.

CHROMOSOMAL LOCATION

Genetic locus: BAIAP2L1 (human) mapping to 7q21.3; Baiap2l1 (mouse) mapping to 5 G2.

SOURCE

BAIAP2L1 (F-9) is a mouse monoclonal antibody raised against amino acids 213-357 mapping within an internal region of BAIAP2L1 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

BAIAP2L1 (F-9) is available conjugated to agarose (sc-393838 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393838 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393838 PE), fluorescein (sc-393838 FITC), Alexa Fluor® 488 (sc-393838 AF488), Alexa Fluor® 546 (sc-393838 AF546), Alexa Fluor® 594 (sc-393838 AF594) or Alexa Fluor® 647 (sc-393838 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393838 AF680) or Alexa Fluor® 790 (sc-393838 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

BAIAP2L1 (F-9) is recommended for detection of BAIAP2L1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 BAIAP2L1 siRNA (h): sc-89810, BAIAP2L1 siRNA (m): sc-105115, BAIAP2L1 shRNA Plasmid (h): sc-89810-SH, BAIAP2L1 shRNA Plasmid (m): sc-105115-SH, BAIAP2L1 shRNA (h) Lentiviral Particles: sc-89810-V and BAIAP2L1 shRNA (m) Lentiviral Particles: sc-105115-V.

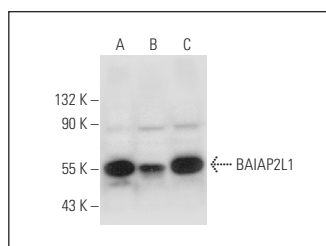
Molecular Weight of BAIAP2L1: 60 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, JAR cell lysate: sc-2276 or K-562 whole cell lysate: sc-2203.

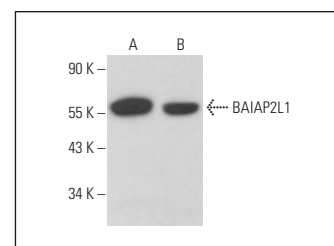
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



BAIAP2L1 (F-9): sc-393838. Western blot analysis of BAIAP2L1 expression in HeLa nuclear extract (A) and JAR (B) and K-562 (C) whole cell lysates.



BAIAP2L1 (F-9): sc-393838. Western blot analysis of BAIAP2L1 expression in HeLa nuclear extract (A) and PC-12 whole cell lysate (B).

SELECT PRODUCT CITATIONS

- Shakery, T. and Safari, F. 2021. Downregulation of Pinkbar/pAKT and MMP2/MMP9 expression in MDA-MB-231 breast cancer cells as potential targets in cancer therapy by hAMSCs secretome. Cells Tissues Organs. E-published.
- Ebadi Zavieh, S. and Safari, F. 2022. The antitumor activity of hAMSCs secretome in HT-29 colon cancer cells through downregulation of EGFR/c-Src/IRTKS expression and p38/ERK1/2 phosphorylation. Cell Biochem. Biophys. 80: 395-402.
- Fox, S., et al. 2022. Cooperative assembly of filopodia by the formin FMNL2 and I-BAR domain protein IRTKS. J. Biol. Chem. 298: 102512.

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 for detailed protocols and support products.

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