BART1 (C-12): sc-133041



The Power to Question

BACKGROUND

ADP-ribosylation factors (ARFs) are important in eukaryotic vesicular trafficking pathways and they play an essential role in the activation of phospholipase D (PC-PLD). ARL2 (ADP-ribosylation factor-like protein 2) functions as a component of a secretory pathway that is involved in the calcium-dependent release of acetylcholine. Additionally, ARL2 plays a role in the folding of tubule proteins, thereby playing an important role in microtubule dynamics and cell cycle progression. BART1 (Binder of ARL2 protein 1), also known as ARL2BP (ADP-ribosylation factor-like protein 2-binding protein), is a 163 amino acid protein that interacts with GTP-bound ARL2 complexes and therefore may play a role in modulating ARL2 activity. Though predominantly cytosolic, BART1 can enter the mitochondria and bind the adenine nucleotide transporter when bound to ARL2. There are two isoforms of BART1 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARL2BP (human) mapping to 16q13; Arl2bp (mouse) mapping to 8 C5.

SOURCE

BART1 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of BART1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-133041 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BART1 (C-12) is recommended for detection of BART1 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

BART1 (C-12) is also recommended for detection of BART1 isoforms 1 and 2 in additional species, including porcine.

Suitable for use as control antibody for BART1 siRNA (h): sc-93111, BART1 siRNA (m): sc-141469, BART1 shRNA Plasmid (h): sc-93111-SH, BART1 shRNA Plasmid (m): sc-141469-SH, BART1 shRNA (h) Lentiviral Particles: sc-93111-V and BART1 shRNA (m) Lentiviral Particles: sc-141469-V.

Molecular Weight of BART1: 19 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

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