

FARP2 (M-125): sc-135125

BACKGROUND

FARP2 (FERM, RhoGEF and pleckstrin domain-containing protein 2), also known as PLEKHC3 or FERM domain including RhoGEF (FIR), is a 1,545 amino acid protein that contains one FERM domain, one DH domain and two PH domains. It exists as two alternatively spliced isoforms that are abundantly expressed in brain, lung, and testis as well as in embryonic hippocampal and cortical neurons. FARP2 functions as a Rho-guanine nucleotide exchange factor that activates RAC1 and is thought to regulate neurite remodeling of embryonic neurons. Sema3A binding to neuropilin-1 induces the dissociation of FARP2 from plexin-A1, thereby activating FARP2's Rac GEF activity which is critical for repulsion of outgrowing axons and suppression of neuronal adhesion. Downregulation of the FARP2 gene has been implicated in autism.

REFERENCES

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3. Madura, T., Yamashita, T., Kubo, T., Taniguchi, M., Kawakita, A., Hosokawa, K. and Tohyama, M. 2003. Expression of FERM domain including guanine nucleotide exchange factor mRNA in adult rat brain. *Brain Res. Mol. Brain Res.* 114: 163-167.
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CHROMOSOMAL LOCATION

Genetic locus: *Farp2* (mouse) mapping to 1 D.

SOURCE

FARP2 (M-125) is a rabbit polyclonal antibody raised against amino acids 428-552 mapping within an internal region of FARP2 of mouse origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

FARP2 (M-125) is recommended for detection of FARP2 of mouse and rat origin by Western Blotting (starting dilution 1:200, 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 FARP2 siRNA (m): sc-145072, FARP2 shRNA Plasmid (m): sc-145072-SH and FARP2 shRNA (m) Lentiviral Particles: sc-145072-V.

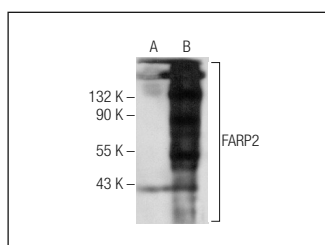
Molecular Weight of FARP2 isoforms: 120/73 kDa.

Positive Controls: FARP2 (m2): 293T Lysate: sc-110246.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FARP2 (M-125): sc-135125. Western blot analysis of FARP2 expression in non-transfected: sc-117752 (A) and mouse FARP2 transfected: sc-110246 (B) 293T whole cell lysates.

RESEARCH USE

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

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Try **FARP2 (H-9): sc-390744** or **FARP2 (D-5): sc-377011**, our highly recommended monoclonal alternatives to FARP2 (M-125).