

FILIP (S-17): sc-138791

BACKGROUND

Development of the cortex (cortico genesis) is a highly complex and dynamic process, involving cellular migration to form the six layers of pyramidal neurons and interneurons. Migrating cells first extend a leading process, then the nucleus moves into the leading process and finally the cell retracts its trailing process. FILIP (filamin-A-interacting protein 1) is a 1,213 amino acid protein that is likely involved in the filamin A-mediated events of cellular migration. Filamin A is an Actin-binding protein required for cell motility and interaction with FILIP induces degradation of filamen A. FILIP acts through a Filamin A-F-actin axis to control the start of neocortical cell migration from the ventricular zone. Overexpression of FILIP in ventricular zone cells results in failure to migrate in explants. There are three isoforms of FILIP that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FILIP1 (human) mapping to 6q14.1; Filip1 (mouse) mapping to 9 E1.

SOURCE

FILIP (S-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FILIP of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-138791 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FILIP (S-17) is recommended for detection of FILIP 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).

FILIP (S-17) is also recommended for detection of FILIP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FILIP siRNA (h): sc-95469, Filip1 siRNA (m): sc-145184, FILIP shRNA Plasmid (h): sc-95469-SH, Filip1 shRNA Plasmid (m): sc-145184-SH, FILIP shRNA (h) Lentiviral Particles: sc-95469-V and Filip1 shRNA (m) Lentiviral Particles: sc-145184-V.

Molecular Weight of FILIP: 138 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) or donkey anti-goat IgG-TR: sc-2783 (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.