

FAM214A (C-18): sc-243186

BACKGROUND

FAM214A, also known as BC031353 or KIAA1370, is a 1,076 amino acid protein that is alternatively spliced into 2 isoforms. The gene encoding KIAA1370 maps to human chromosome 15, which encodes more than 700 genes and comprises about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In Angelman syndrome, this loss is due to inactivity of the maternal 15q21.2 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM214A (human) mapping to 15q21.2; BC031353 (mouse) mapping to 9 D.

SOURCE

FAM214A (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FAM214A 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-243186 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM214A (C-18) is recommended for detection of FAM214A of mouse, rat and human 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).

FAM214A (C-18) is also recommended for detection of FAM214A in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FAM214A siRNA (h): sc-90276, FAM214A siRNA (m): sc-141565, FAM214A shRNA Plasmid (h): sc-90276-SH, FAM214A siRNA (m): sc-141565-SH, FAM214A shRNA (h) Lentiviral Particles: sc-90276-V and FAM214A siRNA (m): sc-141565-V.

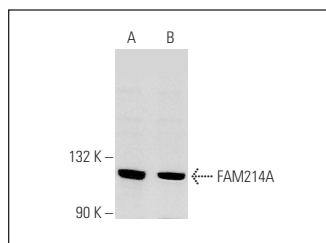
Molecular Weight of FAM214A isoforms: 122/108 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or K-562 whole cell lysate: sc-2203.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



FAM214A (C-18): sc-243186. Western blot analysis of FAM214A expression in Jurkat (A) and K-562 (B) 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.