SANTA CRUZ BIOTECHNOLOGY, INC.

FAM172A (N-13): sc-240405

BACKGROUND

FAM172A (family with sequence similarity 172, member A), also known as C5orf21 or DKFZp564D172, is a 416 amino acid secreted protein belonging to the UPF0528 family and is encoded by a gene located on human chromosome 5. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5-associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM172A (human) mapping to 5q15; Fam172a (mouse) mapping to 13 C1.

SOURCE

FAM172A (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FAM172A 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-240405 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM172A (N-13) is recommended for detection of FAM172A of mouse and human origin, and RGD1305526 of rat 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).

FAM172A (N-13) is also recommended for detection of FAM172A in additional species, including bovine, porcine and avian.

Suitable for use as control antibody for FAM172A siRNA (h): sc-91749, FAM172A siRNA (m): sc-108177, FAM172A shRNA Plasmid (h): sc-91749-SH, FAM172A shRNA Plasmid (m): sc-108177-SH, FAM172A shRNA (h) Lentiviral Particles: sc-91749-V and FAM172A shRNA (m) Lentiviral Particles: sc-108177-V.

Molecular Weight (predicted) of FAM172A: 48 kDa.

Molecular Weight (observed) of FAM172A: 46 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

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.