SANTA CRUZ BIOTECHNOLOGY, INC.

FAM20B (P-14): sc-164313

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. The FAM20B gene product has been provisionally designated FAM20B pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM20B (human) mapping to 1q25.2; Fam20b (mouse) mapping to 1 H1.

SOURCE

FAM20B (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FAM20B 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-164313 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM20B (P-14) is recommended for detection of FAM20B 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); non cross-reactive with FAM20A or FAM20C.

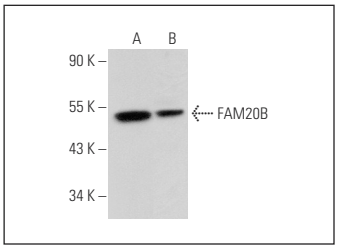
FAM20B (P-14) is also recommended for detection of FAM20B in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for FAM20B siRNA (h): sc-78870, FAM20B siRNA (m): sc-145033, FAM20B shRNA Plasmid (h): sc-78870-SH, FAM20B shRNA Plasmid (m): sc-145033-SH, FAM20B shRNA (h) Lentiviral Particles: sc-78870-V and FAM20B shRNA (m) Lentiviral Particles: sc-145033-V.

Molecular Weight of FAM20B: 46 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211 or KNRK whole cell lysate: sc-2214.

DATA



FAM20B (P-14): sc-164313. Western blot analysis of FAM20B expression in RAW 264.7 (**A**) and KNRK (**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.