FAM110B (N-20): sc-82140

SANTA CRUZ® BIOTECHNOLOGY

The Power to Question

BACKGROUND

FAM110B (familiarity with sequence similarity 110, member B) is a 370 amino acid protein, which contains several motifs that are conserved among FAM110 family members and a proline-rich region through which it probably binds proteins. Localized to the nucleus where they associate with centrosomes, FAM110A, FAM110B and FAM110C accumulate at the spindle poles during mitosis. Expression of FAM110B and FAM110C impairs cell cycle progression through G_1 phase. FAM110B is expressed in testis, thyroid and spleen and is found at lower levels in ovary, adrenal gland, stomach, trachea, intestine, lymph node, spinal cord and prostate. The gene encoding FAM110B maps to human chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes. Chromosome 8 is also associated with Pfeiffer syndrome, congenital hypothyroidism and Waardenburg syndrome.

REFERENCES

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2. Doxsey, S., Zimmerman, W. and Mikule, K. 2005. Centrosome control of the cell cycle. Trends Cell Biol. 15: 303-311.

3. Manneville, J.B. and Etienne-Manneville, S. 2006. Positioning centrosomes and spindle poles: looking at the periphery to find the centre. Biol. Cell 98: 557-565.

4. Patzke, S., Stokke, T. and Aasheim, H.C. 2006. CSPP and CSPP-L associate with centrosomes and microtubules and differently affect microtubule organization. J. Cell. Physiol. 209: 199-210.

5. Hauge, H., Patzke, S. and Aasheim, H.C. 2007. Characterization of the FAM110 gene family. Genomics 90: 14-27.

6. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611394. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

CHROMOSOMAL LOCATION

Genetic locus: FAM110B (human) mapping to 8q12.1; Fam110b (mouse) mapping to 4 A1.

SOURCE

FAM110B (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FAM110B 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-82140 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FAM110B (N-20) is recommended for detection of FAM110B 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).

FAM110B (N-20) is also recommended for detection of FAM110B in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FAM110B siRNA (h): sc-77299, FAM110B siRNA (m): sc-77300, FAM110B shRNA Plasmid (h): sc-77299-SH, FAM110B shRNA Plasmid (m): sc-77300-SH, FAM110B shRNA (h) Lentiviral Particles: sc-77299-V and FAM110B shRNA (m) Lentiviral Particles: sc-77300-V.

Molecular Weight of FAM110B: 41 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.