SANTA CRUZ BIOTECHNOLOGY, INC.

MAP7D3 (M-15): sc-247943

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

MAP7D3 (MAP7 domain-containing protein 3) is an 876 amino acid protein that belongs to the MAP7 family and localizes to the cytoplasm and cytoskeleton, as well as microtubules during mitosis. Existing as three alternatively spliced isoforms, MAP7D3 is encoded by a gene that maps to human chromosome Xq26.3. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. There are a number of conditions related to an unsual number and combination of sex chromosomes being inherited. More than one copy of the X chromosome with a Y chromosome causes Klinefelter's syndrome. A single copy of X alone leads to Turner's syndrome. More than 2 copies of the X chromosome, in the absence of a Y chromosome, is known as Triple X syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

REFERENCES

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STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Mtap7d3 (mouse) mapping to X A5.

SOURCE

MAP7D3 (M-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MAP7D3 of mouse 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-247943 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAP7D3 (M-15) is recommended for detection of MAP7D3 of mouse and 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); non cross-reactive with MAP7D2.

Suitable for use as control antibody for MAP7D3 siRNA (m): sc-149258, MAP7D3 shRNA Plasmid (m): sc-149258-SH and MAP7D3 shRNA (m) Lentiviral Particles: sc-149258-V.

Molecular Weight of MAP7D3 isoforms: 98/94/95 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.

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.