SANTA CRUZ BIOTECHNOLOGY, INC.

MON2 (S-15): sc-161874

BACKGROUND

MON2, also known as SF21, is a 1,718 amino acid protein that exists as multiple alternatively spliced isoforms and plays an important role in membrane trafficking. Related to the guanine nucleotide exchange factors (GEFs), MON2 shares significant homology with BIG as well as the GBF (Golgi Brefeldin A resistance factor) subfamilies of proteins. MON2 acts as a scaffold protein when associated with Dopey-1, a large cytoplasmic protein involved in trafficking between the late golgi and early endosomes. MON2 is homologous to the yeast protein and is encoded by a gene located on human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

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: MON2 (human) mapping to 12q14.1; Mon2 (mouse) mapping to 10 D2.

SOURCE

MON2 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MON2 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-161874 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MON2 (S-15) is recommended for detection of MON2 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).

Suitable for use as control antibody for MON2 siRNA (h): sc-96032, MON2 siRNA (m): sc-149499, MON2 shRNA Plasmid (h): sc-96032-SH, MON2 shRNA Plasmid (m): sc-149499-SH, MON2 shRNA (h) Lentiviral Particles: sc-96032-V and MON2 shRNA (m) Lentiviral Particles: sc-149499-V.

Molecular Weight of MON2: 190 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.