SANTA CRUZ BIOTECHNOLOGY, INC.

LMO3 (C-14): sc-82647

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The Power to Question

BACKGROUND

LMO3 (LIM domain only 3), also known as RBTN3 (Rhombotin-3), RBTNL2 or RHOM3, is a 145 amino acid protein that contains 2 LIM zinc-binding domains and may be involved in transcriptional regulation events in tissues throughout the body. Aberrant expression of LMO3 is associated with the genesis and progression of human neuroblastoma, suggesting a role for LMO3 in oncogenesis. The gene encoding LMO3 maps to 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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CHROMOSOMAL LOCATION

Genetic locus: LMO3 (human) mapping to 12p12.3; Lmo3 (mouse) mapping to 6 G1.

SOURCE

LMO3 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of LMO3 of human origin.

STORAGE

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

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-82647 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82647 X, 200 µg/0.1 ml.

APPLICATIONS

LMO3 (C-14) is recommended for detection of LMO3 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); non cross-reactive with other LMO family members.

LMO3 (C-14) is also recommended for detection of LMO3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LMO3 siRNA (h): sc-75429, LMO3 siRNA (m): sc-75430, LMO3 shRNA Plasmid (h): sc-75429-SH, LMO3 shRNA Plasmid (m): sc-75430-SH, LMO3 shRNA (h) Lentiviral Particles: sc-75429-V and LMO3 shRNA (m) Lentiviral Particles: sc-75430-V.

LMO3 (C-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of LMO3: 17 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.