

Maestro (T-15): sc-85046

BACKGROUND

Maestro, also known as MRO, B29 or C18orf3, is a 248 amino acid protein that localizes to the nucleolus and contains one HEAT repeat. Expressed ubiquitously, Maestro exists as multiple alternatively spliced isoforms and is thought to play a role in sexual development and fertility. The gene encoding Maestro may be involved in tumor suppression and maps to human chromosome 18q21.2, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MRO (human) mapping to 18q21.2; Mro (mouse) mapping to 18 E2.

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.

SOURCE

Maestro (T-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Maestro of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85046 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Maestro (T-15) is recommended for detection of Maestro 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).

Maestro (T-15) is also recommended for detection of Maestro in additional species, including bovine and porcine.

Suitable for use as control antibody for Maestro siRNA (h): sc-75730, Maestro siRNA (m): sc-149214, Maestro shRNA Plasmid (h): sc-75730-SH, Maestro shRNA Plasmid (m): sc-149214-SH, Maestro shRNA (h) Lentiviral Particles: sc-75730-V and Maestro shRNA (m) Lentiviral Particles: sc-149214-V.

Molecular Weight of Maestro: 29 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

PROTOCOLS

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