SANTA CRUZ BIOTECHNOLOGY, INC.

MIA2 (I-13): sc-160524



BACKGROUND

Tumorigenesis is a process that is mediated by a network of membrane, cytosolic and nuclear associated factors, which regulate proliferation and cell-matrix interaction through signaling cascades. The phenotype of malignant melanomas *in vivo* depends on the global expression of stimulatory or inhibitory factors generated in both tumors cells and their environment. One such factor includes MIA2 (melanoma inhibitory activity 2), which is a 541 amino acid secreted protein that is highly expressed in hepatocytes and is considered a marker of hepatic fibrosis. Regulated by HNF-1 (hepatic nuclear factor 1), MIA2 is an inhibitor of hepatocellular carcinoma (HCC) growth and invasion, thereby acting as a tumour suppressor. MIA2 is a member of the MIA/OTOR family and contains one SH3 domain, which binds to proline-rich regions of a wide range of regulators. MIA2 exists as two alternatively spliced variants and is encoded by a gene located on human chromsome 14.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MIA2 (human) mapping to 14q21.1.

SOURCE

MIA2 (I-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MIA2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160524 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MIA2 (I-13) is recommended for detection of MIA2 of 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), immunohistochemistry (including paraffin-embedded sections) (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 MIA or MIA3.

Suitable for use as control antibody for MIA2 siRNA (h): sc-92388, MIA2 shRNA Plasmid (h): sc-92388-SH and MIA2 shRNA (h) Lentiviral Particles: sc-92388-V.

Molecular Weight of MIA2: 62 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) Immunofluo-rescence: 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



MIA2 (I-13): sc-160524. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes.

STORAGE

Store at 4° C, **D0 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.