SANTA CRUZ BIOTECHNOLOGY, INC.

MISR II (N-15): sc-66546

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

MISR II (Anti-Muellerian hormone type-2 receptor, MIS type II receptor) is a 573 amino acid protein encoded by the human gene AMHR2. MISR II belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family, TGFB receptor subfamily and contains one protein kinase domain. Upon ligand binding, MISR II forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. These Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. It also acts as a receptor for anti-Muellerian hormone. Defects in AMHR2 are the cause of persistent Muellerian duct syndrome type 2 (PMDS-2). PMDS-2 is a form of male pseudohermaphroditism characterized by a failure of Muellerian duct regression in otherwise normal males.

CHROMOSOMAL LOCATION

Genetic locus: AMHR2 (human) mapping to 12q13.13; Amhr2 (mouse) mapping to 15 F3.

SOURCE

MISR II (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of MISR II 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-66546 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

MISR II (N-15) is recommended for detection of MISR II of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 MISR II siRNA (h): sc-62621, MISR II siRNA (m): sc-62622, MISR II shRNA Plasmid (h): sc-62621-SH, MISR II shRNA Plasmid (m): sc-62622-SH, MISR II shRNA (h) Lentiviral Particles: sc-62621-V and MISR II shRNA (m) Lentiviral Particles: sc-62622-V.

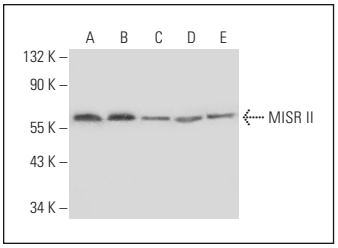
Molecular Weight of MISR II: 63 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, HEK293 whole cell lysate: sc-45136 or K-562 whole cell lysate: sc-2203.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



MISR II (N-15): sc-66546. Western blot analysis of MISR II expression in CCRF-CEM (**A**), HEK293 (**B**), HeLa (**C**), Jurkat (**D**) and K-562 (**E**) whole cell lysates.

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.