

MISR II (H-150): sc-67287

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, TGFβ 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. MISR II also acts as a receptor for anti-Muellerian hormone. Defects in AMHR2 are the cause of persistent Mullerian duct syndrome type 2 (PMDS-2). PMDS-2 is a form of male pseudohermaphroditism characterized by a failure of Mullerian duct regression in otherwise normal males.

REFERENCES

1. Armendares, S., et al. 1974. Two male sibs with uterus and fallopian tubes. A rare, probably inherited disorder. *Clin. Genet.* 4: 291-296.
2. Imbeaud, S., et al. 1996. Insensitivity to anti-Mullerian hormone due to a mutation in the human anti-Mullerian hormone receptor. *Nat. Genet.* 11: 382-388.

CHROMOSOMAL LOCATION

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

SOURCE

MISR II (H-150) is a rabbit polyclonal antibody raised against amino acids 1-150 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.

APPLICATIONS

MISR II (H-150) 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.

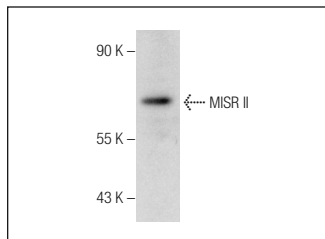
Molecular Weight of MISR II: 63 kDa.

Positive Controls: rat testis extract: sc-2400, rat ovary extract: sc-2399 or ES-2 cell lysate: sc-24674.

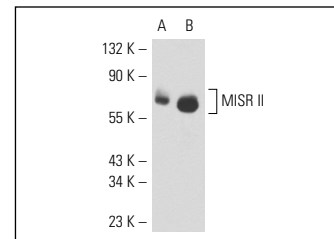
RECOMMENDED SECONDARY REAGENTS

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

DATA



MISR II (H-150): sc-67287. Western blot analysis of MISR II expression in ES-2 whole cell lysate.



MISR II (H-150): sc-67287. Western blot analysis of MISR II expression in rat testis (A) and rat ovary (B) tissue extracts.

SELECT PRODUCT CITATIONS

1. Nanjappa, M.K., et al. 2012. The industrial chemical bisphenol A (BPA) interferes with proliferative activity and development of steroidogenic capacity in rat Leydig cells. *Biol. Reprod.* 86: 135, 1-12.
2. Chilvers, R.A., et al. 2012. Development of a novel protocol for isolation and purification of human granulosa cells. *J. Assist. Reprod. Genet.* 29: 547-556.

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.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **MISR II (D-9): sc-377413**, our highly recommended monoclonal alternative to MISR II (H-150).