

Oviductin (N-20): sc-46432

BACKGROUND

The mucins are a family of highly glycosylated, secreted proteins with a basic structure consisting of a variable number of tandem repeats (VNTRs). The number of repeats is highly polymorphic and varies among different alleles. The mucin family consists of Mucins 1-4, Mucin 5 (AC and B), Mucins 6-8, Mucins 11-13 and Mucins 15-17. Mucin 9 (Muc9), often referred to as oviduct-specific glycoprotein (Oviductin) or estrogen-dependent oviduct protein, is an oviduct-specific protein. It binds to oocyte zona pellucida *in vivo* and is involved in the fertilization process and early embryonic development. Oviductin localizes to secretory granules and the protein is detected in OE-E6/E7 cell lines. During the human reproductive cycle, Oviductin expression is highest at the time of ovulation.

CHROMOSOMAL LOCATION

Genetic locus: OVG1 (human) mapping to 1p13.2; Ovgp1 (mouse) mapping to 3 F2.2.

SOURCE

Oviductin (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Oviductin (also designated Mucin 9) 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-46432 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

Oviductin (N-20) is recommended for detection of Oviductin 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), 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).

Oviductin (N-20) is also recommended for detection of Oviductin in additional species, including bovine and porcine.

Suitable for use as control antibody for Oviductin siRNA (h): sc-45354, Oviductin siRNA (m): sc-45355, Oviductin shRNA Plasmid (h): sc-45354-SH, Oviductin shRNA Plasmid (m): sc-45355-SH, Oviductin shRNA (h) Lentiviral Particles: sc-45354-V and Oviductin shRNA (m) Lentiviral Particles: sc-45355-V.

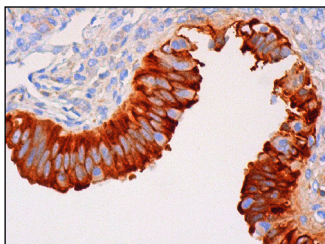
Molecular Weight of Oviductin: 120 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, mouse ovary extract: sc-2404 or CHO-K1 cell lysate: sc-3809.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Oviductin (N-20): sc-46432. Immunoperoxidase staining of formalin fixed, paraffin-embedded human fallopian tube tissue showing cytoplasmic staining of glandular cells.

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 **Oviductin (H-8): sc-377267** or **Oviductin (G-7): sc-376300**, our highly recommended monoclonal alternatives to Oviductin (N-20).