Oviductin (H-8): sc-377267

**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-6/E7 cell lines. During the human reproductive cycle, Oviductin expression is highest at the time of ovulation.

**CHROMOSOMAL LOCATION**

Genetic locus: OVGP1 (human) mapping to 1p13.2; Ovgp1 (mouse) mapping to F322.

**SOURCE**

Oviductin (H-8) is a mouse monoclonal antibody raised against amino acids 632-721 mapping at the C-terminus of Oviductin (also designated Mucin 9) of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Oviductin (H-8) is available conjugated to agarose (sc-377267 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377267 HRP), 200 µg/ml, for WB, IHOP (sc-377267 PE), fluorescein (sc-377267 FITC), Alexa Fluor® 488 (sc-377267 AF488), Alexa Fluor® 546 (sc-377267 AF546), Alexa Fluor® 594 (sc-377267 AF594) or Alexa Fluor® 647 (sc-377267 AF647), 200 µg/ml, for WB (RGB), IF, IHOP and FCM; and to either Alexa Fluor® 680 (sc-377267 AF680) or Alexa Fluor® 790 (sc-377267 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Oviductin (H-8) is recommended for detection of Oviductin of mouse, rat, human and hamster origin by Western Blotting (starting dilution 1:100, 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), 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).

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: c4 whole cell lysate: sc-364186, mouse ovary extract: sc-2404 or mouse liver extract: sc-2256.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

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

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