**BACKGROUND**

Follicle-stimulating hormone receptor (FSHR) is a 695 amino acid G protein-coupled receptor. FSH binds to the receptor in a hand-clasp fashion via its $\alpha$ and $\beta$ subunits. While the $\alpha$ subunit of FSH is involved in the binding of FSH to the receptor, the $\beta$ subunit stabilizes this interaction. Linkage studies suggest that a missense mutation in the FSHR gene can cause reduced FSH binding affinity and lead to a condition known as hypergonadotropic ovarian dysgenesis (ODG). In males however, this mutation does not appear to have a detrimental affect on fertility. It is believed that a mutation in the FSHR gene is also associated with ovarian hyperstimulation syndrome; a condition characterized by the presence of multiple serous and hemorrhagic follicular cysts lined by luteinized cells.

**CHROMOSOMAL LOCATION**

Genetic locus: FSHR (human) mapping to 2p16.3; Fshr (mouse) mapping to 17 E5.

**SOURCE**

FSHR (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FSHR of human origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7798P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

FSHR (N-20) is recommended for detection of FSHR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (starting dilution 1.50, dilution range 1:50-1:150) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). FSHR (N-20) is also recommended for detection of FSHR in additional species, including equine, canine, bovine, porcine and feline.

Suitable for use as control antibody for FSHR siRNA (h): sc-35415, FSHR siRNA (m): sc-35416, FSHR shRNA Plasmid (h): sc-35415-SH, FSHR shRNA Plasmid (m): sc-35416-SH, FSHR shRNA (h) Lentiviral Particles: sc-35415-V and FSHR shRNA (m) Lentiviral Particles: sc-35416-V.

Molecular Weight of FSHR: 75 kDa.

Positive Controls: rat ovary extract: sc-2399.

**STORAGE**

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

**PROTOCOLS**

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

**RESEARCH USE**

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

**DATA**

![Western blot analysis of FSHR expression in rat ovary extract.](image)

**SELECT PRODUCT CITATIONS**


2. Ponglowhan, S., 2012. Expression of luteinizing hormone and follicle-stimulating hormone receptor in the dog prostate. Expression of luteinizing hormone and follicle-stimulating hormone receptor in the dog prostate. Theriogenology 78: 777-783


