**Gonadotropin α (INN-hCG-5): sc-57179**

**BACKGROUND**

Gonadotropin (also designated choriogonadotropin) is a hormone produced by the placenta in the first trimester of pregnancy and exists as a heterodimer formed from a common α chain and a unique β chain. The unique β chain confers biological specificity to thyrotropin, lutropin, follitropin and gonadotropin. The secreted α subunit maps to human chromosome 6 and the β subunit maps to human chromosome 19. Gonadotropin stimulates the ovaries to produce and maintain normal levels of the steroids essential for maintaining pregnancy, including estrogen and progesterone. Gonadotropin is a member of the cystine knot growth-factor superfamily, a group of proteins that contain a distinct arrangement of six cysteine residues and are expressed in placenta. The proper secretion and dimerization of gonadotropin depends on the conformation of the cystine knot, although biological activity is independent of this conformation.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CGA (human) mapping to 6q12-q21; Cga (mouse) mapping to 4 A5.

**SOURCE**

Gonadotropin α (INN-hCG-5) is a mouse monoclonal antibody raised against native Gonadotropin α 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.

**APPLICATIONS**

Gonadotropin α (INN-hCG-5) is recommended for detection of Gonadotropin α of human origin by immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500). Suitable for use as control antibody for Gonadotropin α siRNA (h): sc-39538.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 2) Immunohistochemistry: use ImmunoCruz™: sc-2050 or ABC: sc-2017 mouse IgG Staining Systems.

**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.