Choriogonadotropin β (HCG-60): sc-51605

BACKGROUND
Choriogonadotropin is a hormone produced by the placenta in the first trimester of pregnancy and exists as a heterodimer formed from a unique β chain and an α chain common to all gonadotropins. The unique β chain confers biological specificity to choriogonadotropin, luteinizing hormone and follicle stimulating hormone. The secreted α subunit maps to human chromosome 6 and the β subunit of choriogonadotropin maps to human chromosome 19. Choriogonadotropin stimulates the ovaries to produce and maintain normal levels of the steroids essential for maintaining pregnancy, including estrogen and progesterone. Choriogonadotropin 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 choriogonadotropin depends on the conformation of the cystine knot, although biological activity is independent of this conformation.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: CGB (human) mapping to 19q13.33.

SOURCE
Choriogonadotropin β (HCG-60) is a mouse monoclonal antibody raised against Choriogonadotropin β of human origin.

PRODUCT
Each vial contains 50 μg IgG1 in 0.5 ml PBS with <0.1% sodium azide and 0.1% gelatin.

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

APPLICATIONS
Choriogonadotropin β (HCG-60) is recommended for detection of Choriogonadotropin β of 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Choriogonadotropin β siRNA (h): sc-39540, Choriogonadotropin β shRNA Plasmid (h): sc-39540-SH and Choriogonadotropin β shRNA (h) Lentiviral Particles: sc-39540-V.

Molecular Weight of Choriogonadotropin β: 38 kDa.

Positive Controls: Choriogonadotropin β (h2): 293T Lysate: sc-170178, OV-90 whole cell lysate: sc-364191 or TT whole cell lysate: sc-364195.

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.