Choriogonadotropin β (h2): 293T Lysate: sc-170178

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 (LH) and follicle stimulating hormone (FSH). The secured 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.

PRODUCT
Choriogonadotropin β (h2): 293T Lysate represents a lysate of human Choriogonadotropin β transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS
Choriogonadotropin β (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Choriogonadotropin β antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Choriogonadotropin β (HCG-60): sc-51605 is recommended as a positive control antibody for Western Blot analysis of enhanced human Choriogonadotropin β expression in Choriogonadotropin β transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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.

DATA
![Western Blotting Results](https://via.placeholder.com/150)

- **Choriogonadotropin β (HCG-60)**: sc-51605 Western blot analysis of Choriogonadotropin β expression in non-transfected sc-117752 (A) and human Choriogonadotropin β transfected sc-170178 (B): 293T whole cell lysates.
- **Choriogonadotropin β (HCG-61)**: sc-51606 Western blot analysis of Choriogonadotropin β expression in non-transfected sc-117752 (A) and human Choriogonadotropin β transfected sc-170178 (B): 293T whole cell lysates.

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.

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

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