

# HGC6.3 (T-14): sc-247138

## BACKGROUND

HGC6.3 is a 171 amino acid protein that is encoded by a gene that maps to human chromosome 6 that is frequently deleted in ovarian cancers, suggesting that HGC6.3 may function as a tumor suppressor. Human chromosome 6 contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

## REFERENCES

1. Dodson, M.K., et al. 1993. Comparison of loss of heterozygosity patterns in invasive low-grade and high-grade epithelial ovarian carcinomas. *Cancer Res.* 53: 4456-4460.
2. Saito, S., et al. 1996. Definition of a commonly deleted region in ovarian cancers to a 300-kb segment of chromosome 6q27. *Cancer Res.* 56: 5586-5589.
3. Minaguchi, T., et al. 1999. Complete DNA sequence and characterization of a 330-kb VNTR-rich region on chromosome 6q27 that is commonly deleted in ovarian cancer. *DNA Res.* 6: 131-136.
4. Gilbert, F. 2002. Chromosome 6. *Genet. Test.* 6: 341-358.
5. Mungall, A.J., et al. 2003. The DNA sequence and analysis of human chromosome 6. *Nature* 425: 805-811.
6. Woodfine, K., et al. 2005. Replication timing of human chromosome 6. *Cell Cycle* 4: 172-176.

## CHROMOSOMAL LOCATION

Genetic locus: HGC6.3 (human) mapping to 6q27.

## SOURCE

HGC6.3 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HGC6.3 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-247138 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

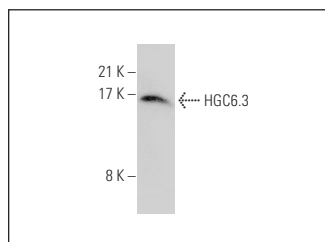
HGC6.3 (T-14) is recommended for detection of HGC6.3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of HGC6.3: 17 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



HGC6.3 (T-14): sc-247138. Western blot analysis of HGC6.3 expression in U-251-MG whole cell lysate.

## RESEARCH USE

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