

HGC6.3 (C-15): sc-247139

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., Hartmann, L.C., Cliby, W.A., DeLacey, K.A., Keeney, G.L., Ritland, S.R., Su, J.Q., Podratz, K.C. and Jenkins, R.B. 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., Sirahama, S., Matsushima, M., Suzuki, M., Sagae, S., Kudo, R., Saito, J., Noda, K. and Nakamura, Y. 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., Matsushima, M., Saito, S., Kanamori, Y., Shirahama, S., Okamoto, S., Minami, M., Taketani, Y. and Nakamura, Y. 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., Palmer, S.A., Sims, S.K., Edwards, C.A., Ashurst, J.L., Wilming, L., Jones, M.C., Horton, R., Hunt, S.E., Scott, C.E., Gilbert, J.G., Clamp, M.E., Bethel, G., Milne, S., et al. 2003. The DNA sequence and analysis of human chromosome 6. *Nature* 425: 805-811.
6. Woodfine, K., Beare, D.M., Ichimura, K., Debernardi, S., Mungall, A.J., Fiegler, H., Collins, V.P., Carter, N.P. and Dunham, I. 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 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of HGC6.3 of human origin.

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.

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-247139 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HGC6.3 (C-15) is recommended for detection of HGC6.3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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) 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.

RESEARCH USE

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