



BTNL8 (Q-23): sc-130986

BACKGROUND

BTNL8 (butyrophilin-like 8) is a 500 amino acid single-pass type I membrane protein that belongs to the immunoglobulin superfamily and contains one B30.2/SPRY domain and one Ig-like V-type (immunoglobulin-like) domain. Expressed as multiple alternatively spliced isoforms, BTNL8 is encoded by a gene which maps to human chromosome 5. With 181 million base pairs encoding around 1,000 genes, chromosome 5 comprises about 6% of human genomic DNA. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm on chromosome 5 is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

- Dixon, M.J., Read, A.P., Donnai, D., Colley, A., Dixon, J. and Williamson, R. 1991. The gene for Treacher Collins syndrome maps to the long arm of chromosome 5. *Am. J. Hum. Genet.* 49: 17-22.
- Joslyn, G., Carlson, M., Thliveris, A., Albertsen, H., Gelbert, L., Samowitz, W., Groden, J., Stevens, J., Spirio, L. and Robertson, M. 1991. Identification of deletion mutations and three new genes at the familial polyposis locus. *Cell* 66: 601-613.
- Kinzler, K.W., Nilbert, M.C., Su, L.K., Vogelstein, B., Bryan, T.M., Levy, D.B., Smith, K.J., Preisinger, A.C., Hedge, P. and McKechnie, D. 1991. Identification of locus genes from chromosome 5q21. *Science* 253: 661-665.
- Nishisho, I., Nakamura, Y., Miyoshi, Y., Miki, Y., Ando, H., Horii, A., Koyama, K., Utsunomiya, J., Baba, S. and Hedge, P. 1991. Mutations of chromosome 5q21 genes in FAP and colorectal cancer patients. *Science* 253: 665-669.
- Prieschl, E.E., Pendl, G.G., Harrer, N.E. and Baumruker, T. 1996. The murine homolog of TB2/DP1, a gene of the familial adenomatous polyposis (FAP) locus. *Gene* 169: 215-218.
- Puente, X.S. and López-Otín, C. 2004. A genomic analysis of rat proteases and protease inhibitors. *Genome Res.* 14: 609-622.
- Shin, S.M., Chung, Y.J., Oh, S.T., Jeon, H.M., Hwang, L.J., Namkoong, H., Kim, H.K., Cho, G.W., Hur, S.Y., Kim, T.E., Lee, Y.S., Park, Y.G., Ko, J. and Kim, J.W. 2006. HCCR-1-interacting molecule "deleted in polyposis 1" plays a tumor-suppressor role in colon carcinogenesis. *Gastroenterology* 130: 2074-2086.

CHROMOSOMAL LOCATION

Genetic locus: BTNL8 (human) mapping to 5q35.3.

SOURCE

BTNL8 (Q-23) is an affinity purified rabbit polyclonal antibody raised against synthetic BTNL8 peptide 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.

RESEARCH USE

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

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and <0.02% sucrose.

APPLICATIONS

BTNL8 (Q-23) is recommended for detection of BTNL8 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for BTNL8 siRNA (h): sc-91741, BTNL8 shRNA Plasmid (h): sc-91741-SH and BTNL8 shRNA (h) Lentiviral Particles: sc-91741-V.

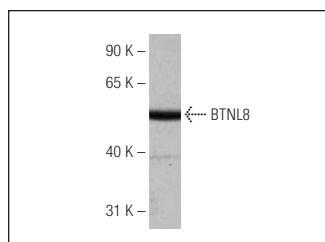
Molecular Weight of BTNL8: 57 kDa.

Positive Controls: human fetal liver tissue extract.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

DATA



BTNL8 (Q-23): sc-130986. Western blot analysis of BTNL8 expression in human fetal liver tissue extract.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.