

BAT4 (C-16): sc-79860

BACKGROUND

BAT4, also known as ANKRD59, G5 or GPATCH10, is a 356 amino acid protein that contains one G-patch domain and 2 ANK repeats and is thought to play a role in immunity-related events throughout the body. The BAT4 gene maps within a cluster of BAT genes on human chromosome 6, which 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. Spies, T., et al. 1989. Human major histocompatibility complex contains a minimum of 19 genes between the complement cluster and HLA-B. Proc. Natl. Acad. Sci. USA 86: 8955-8958.
2. Spies, T., et al. 1989. A new cluster of genes within the human major histocompatibility complex. Science 243: 214-217.
3. Banerji, J., et al. 1990. A gene pair from the human major histocompatibility complex encodes large proline-rich proteins with multiple repeated motifs and a single ubiquitin-like domain. Proc. Natl. Acad. Sci. USA 87: 2374-2378.
4. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 142610. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Xie, T., et al. 2003. Analysis of the gene-dense major histocompatibility complex class III region and its comparison to mouse. Genome Res. 13: 2621-2636.
6. Martinez, A., et al. 2004. Association of the major histocompatibility complex with response to infliximab therapy in rheumatoid arthritis patients. Arthritis Rheum. 50: 1077-1082.

CHROMOSOMAL LOCATION

Genetic locus: GPANK1 (human) mapping to 6p21.33; Gpank1 (mouse) mapping to 17 B1.

SOURCE

BAT4 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of BAT4 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-79860 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-79860 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

BAT4 (C-16) is recommended for detection of BAT4 of mouse, rat and 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).

BAT4 (C-16) is also recommended for detection of BAT4 in additional species, including canine.

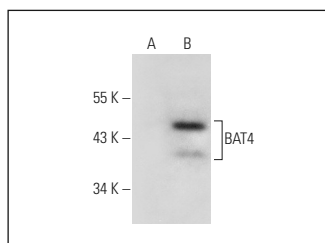
Suitable for use as control antibody for BAT4 siRNA (h): sc-72616, BAT4 siRNA (m): sc-72617, BAT4 shRNA Plasmid (h): sc-72616-SH, BAT4 shRNA Plasmid (m): sc-72617-SH, BAT4 shRNA (h) Lentiviral Particles: sc-72616-V and BAT4 shRNA (m) Lentiviral Particles: sc-72617-S.

BAT4 (C-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BAT4: 39 kDa.

Positive Controls: BAT4 (h): 293T Lysate: sc-173397.

DATA



BAT4 (C-16): sc-79860. Western blot analysis of BAT4 expression in non-transfected: sc-117752 (A) and human BAT4 transfected: sc-173397 (B) 293T whole cell lysates.

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.

MONOS
Satisfaction
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Try **BAT4 (F-12): sc-514989**, our highly recommended monoclonal alternative to BAT4 (C-16).