

BAT2 (m): 293T Lysate: sc-118682

BACKGROUND

BAT2, also known as G₂, is a 2,157 amino acid protein that localizes to both the nucleus and the cytoplasm. Expressed in cell lines of leukemic origin, BAT2 exists as multiple alternatively spliced isoforms and is thought to play a role in the regulation of pre-mRNA splicing. The BAT2 gene maps within a cluster of BAT genes on human chromosome 6 and is implicated in the development of rheumatoid arthritis and Insulin-dependent diabetes mellitus (IDDM). 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. 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.
2. Hashimoto, M., et al. 1999. Genetic contribution of the BAT2 gene micro-satellite polymorphism to the age-at-onset of Insulin-dependent diabetes mellitus. *Hum. Genet.* 105: 197-199.
3. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 142580. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. 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: Bat2 (mouse) mapping to 17 B1.

PRODUCT

BAT2 (m): 293T Lysate represents a lysate of mouse BAT2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

BAT2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive BAT2 antibodies. Recommended use: 10-20 µl per lane.

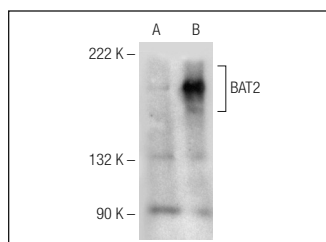
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

BAT2 (A-10): sc-373747 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse BAT2 expression in BAT2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



BAT2 (A-10): sc-373747. Western blot analysis of BAT2 expression in non-transfected: sc-117752 (A) and mouse BAT2 transfected: sc-118682 (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 for detailed protocols and support products.