

BAT2 (S-20): sc-79859

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.

CHROMOSOMAL LOCATION

Genetic locus: PRRC2A (human) mapping to 6p21.33; Prrc2a (mouse) mapping to 17 B1.

SOURCE

BAT2 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BAT2 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-79859 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-79859 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

BAT2 (S-20) is recommended for detection of BAT2 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).

BAT2 (S-20) is also recommended for detection of BAT2 in additional species, including equine and porcine.

Suitable for use as control antibody for BAT2 siRNA (h): sc-72612, BAT2 siRNA (m): sc-72613, BAT2 shRNA Plasmid (h): sc-72612-SH, BAT2 shRNA Plasmid (m): sc-72613-SH, BAT2 shRNA (h) Lentiviral Particles: sc-72612-V and BAT2 shRNA (m) Lentiviral Particles: sc-72613-V.

BAT2 (S-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

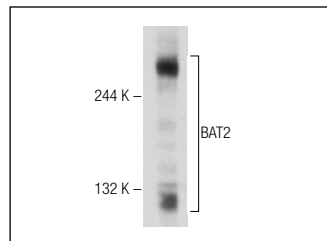
Molecular Weight of BAT2: 228 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

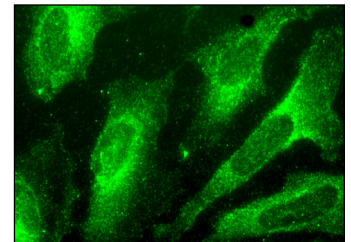
RECOMMENDED SECONDARY REAGENTS

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



BAT2 (S-20): sc-79859. Western blot analysis of BAT2 expression in K-562 whole cell lysate.



BAT2 (S-20): sc-79859. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear localization.

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
Guaranteed

Try **BAT2 (A-10): sc-373747**, our highly recommended monoclonal alternative to BAT2 (S-20).