SANTA CRUZ BIOTECHNOLOGY, INC.

B-ATF (H-19): sc-15280



BACKGROUND

B-ATF is a nuclear basic leucine zipper protein that belongs to the AP-1/ATF superfamily of transcription factors. The leucine zipper of B-ATF mediates dimerization with members of the Jun family of proteins. The B-ATF protein does not homodimerize efficiently, but rather forms a heterodimer preferentially with c-Jun. The B-ATF/c-Jun protein complex can interact with DNA containing a consensus binding site for AP-1, suggesting that B-ATF functions as a tissue-specific modulator of the AP-1 transcription complex in human cells. B-ATF also associates with IFP35, a leucine zipper protein that translocates to the nucleus following IFN treatment. The gene encoding B-ATF, also designated SFA-2, is strongly expressed in mature T and B lymphocytes, and is up-regulated after transformation by human T-cell leukemia virus type I.

REFERENCES

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- Wang, X., Johansen, L.M., Tae, H.J. and Taparowsky, E.J. 1996. IFP 35 forms complexes with B-ATF, a member of the AP1 family of transcription factors. Biochem. Biophys. Res. Commun. 229: 316-322.
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- Echlin, D.R., Tae, H.J., Mitin, N. and Taparowsky, E.J. 2000. B-ATF functions as a negative regulator of AP-1 mediated transcription and blocks cellular transformation by Ras and Fos. Oncogene 19: 1752-1763.

CHROMOSOMAL LOCATION

Genetic locus: BATF (human) mapping to 14q24.3; Batf (mouse) mapping to 12 D2.

SOURCE

B-ATF (H-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of B-ATF of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-15280 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

B-ATF (H-19) is recommended for detection of B-ATF of mouse, rat and 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).

B-ATF (H-19) is also recommended for detection of B-ATF in additional species, including equine, canine and porcine.

Suitable for use as control antibody for B-ATF siRNA (h): sc-45978, B-ATF siRNA (m): sc-45979, B-ATF shRNA Plasmid (h): sc-45978-SH, B-ATF shRNA Plasmid (m): sc-45979-SH, B-ATF shRNA (h) Lentiviral Particles: sc-45978-V and B-ATF shRNA (m) Lentiviral Particles: sc-45979-V.

Molecular Weight of B-ATF: 14 kDa.

Positive Controls: SW480 cell lysate: sc-2219.

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) Immunofluo-rescence: 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.

PROTOCOLS

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

MONOS Ti Satisfation m Guaranteed

Try **B-ATF (WW8): sc-100974**, our highly recommended monoclonal alternative to B-ATF (H-19).