

BATF2 (L-24): sc-130972

BACKGROUND

BATF2 (basic leucine zipper transcription factor, ATF-like 2) is a 274 amino acid protein that localizes to the nucleus and contains one bZIP domain, suggesting that it may be involved in transcriptional regulation. The gene encoding BATF2, which is expressed as multiple alternatively spliced isoforms, is located on human chromosome 11. With approximately 135 million base pairs and 1,400 genes, chromosome 11 comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded *Atm* gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. *Atm* mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

REFERENCES

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6. Zehelein, J., et al. 2006. Skipping of exon 1 in the KCNQ1 gene causes Jervell and Lange-Nielsen syndrome. *J. Biol. Chem.* 281: 35397-35403.
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CHROMOSOMAL LOCATION

Genetic locus: BATF2 (human) mapping to 11q13.1.

SOURCE

BATF2 (L-24) is an affinity purified rabbit polyclonal antibody raised against an internal region of synthetic BATF2 of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

BATF2 (L-24) is recommended for detection of BATF2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

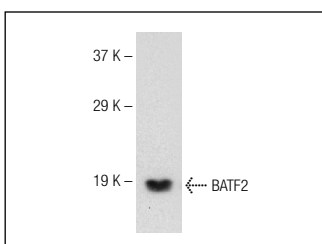
BATF2 (L-24) is also recommended for detection of BATF2 in additional species, including bovine and canine.

Suitable for use as control antibody for BATF2 siRNA (h): sc-97016, BATF2 shRNA Plasmid (h): sc-97016-SH and BATF2 shRNA (h) Lentiviral Particles: sc-97016-V.

Molecular Weight of BATF2 isoforms: 29/20 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or HeLa nuclear extract: sc-2120.

DATA



BATF2 (L-24): sc-130972. Western blot analysis of BATF2 expression in HeLa nuclear extract.

SELECT PRODUCT CITATIONS

1. Ma, H., et al. 2011. Decreased expression of BATF2 is associated with a poor prognosis in hepatocellular carcinoma. *Int. J. Cancer* 128: 771-777.

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.

PROTOCOLS

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



Try **BATF2 (1B11): sc-293274**, our highly recommended monoclonal alternative to BATF2 (L-24).