

BACH1 (K-15): sc-14699

BACKGROUND

Members of the small Maf family (MafK, MafF, and MafG) are basic region leucine zipper (bZip) proteins that can function as transcriptional activators or repressors. They dimerize with other proteins and bind DNA to either repress or activate transcription depending on the dimer compositions. BACH1 and BACH2, heterodimerization partners of MafK, are members of a novel family of BTB/POZ-basic region leucine zipper (bzip) factors. BACH1 and BACH2 have significant similarity to each other in BTB domain and Cap "n" collar-type bzip domain but are otherwise divergent. BACH1 appears ubiquitous, whereas BACH2 is restricted to monocytes and neuronal cells and is abundantly expressed in the early stages of B cell differentiation.

CHROMOSOMAL LOCATION

Genetic locus: BACH1 (human) mapping to 21q21.3; Bach1 (mouse) mapping to 16 C3.3.

SOURCE

BACH1 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BACH1 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.

Blocking peptide available for competition studies, sc-14699 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-14699 X, 200 µg/0.1 ml.

APPLICATIONS

BACH1 (K-15) is recommended for detection of Bach1 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).

BACH1 (K-15) is also recommended for detection of Bach1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for BACH1 siRNA (h): sc-37064, BACH1 siRNA (m): sc-37065, BACH1 shRNA Plasmid (h): sc-37064-SH, BACH1 shRNA Plasmid (m): sc-37065-SH, BACH1 shRNA (h) Lentiviral Particles: sc-37064-V and BACH1 shRNA (m) Lentiviral Particles: sc-37065-V.

BACH1 (K-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

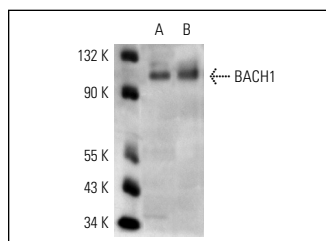
Molecular Weight of BACH1: 92 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HEL 92.1.7 cell lysate: sc-2270 or BACH1 (m): 293T Lysate: sc-118662.

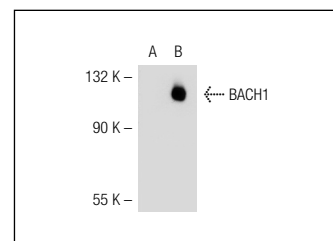
RECOMMENDED SECONDARY REAGENTS

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



BACH1 (K-15): sc-14699. Western blot analysis of BACH1 expression in K-562 (A) and HEL 92.1.7 (B) whole cell lysates.



BACH1 (K-15): sc-14699. Western blot analysis of BACH1 expression in non-transfected: sc-117752 (A) and mouse BACH1 transfected: sc-118662 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Bourdonnay, E., et al. 2009. Redox-sensitive regulation of gene expression in human primary macrophages exposed to inorganic arsenic. *J. Cell. Biochem.* 107: 537-547.
- Florczyk, U., et al. 2011. Opposite effects of HIF-1 α and HIF-2 α on the regulation of IL-8 expression in endothelial cells. *Free Radic. Biol. Med.* 51: 1882-1892.

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.



Try **BACH1 (F-9): sc-271211** or **BACH1 (L-25): sc-100995**, our highly recommended monoclonal alternatives to BACH1 (K-15).