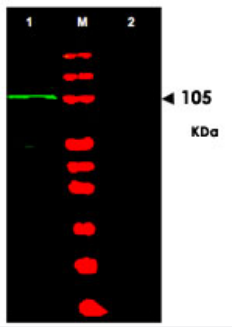
BACH1 polyclonal antibody

Catalog # PAB10027 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using BACH1 polyclonal antibody (Cat # PAB10027) shows detection of a band at~105 KDa (Lane 1) corresponding to human BACH1 present in a 293 whole cell lysate (arrowhead).
Lane 2 shows that specific band staining is competed out when the antibody is pre-incubated with the peptide immunogen prior to reaction.
Approximately 35 ug of lysate was separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose.
After blocking the membrane was probed with the primary antibody diluted to 1:1,000.
Reaction occurred 2 h at room temperature followed by washes and reaction with a 1:10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at roomtemperature (800 nm channel, green).
Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red).
IRDye™800 fluorescence image was capturedusing the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR,Inc.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant BACH1.
Immunogen	Recombinant protein corresponding to amino acids 92-104 of human BACH1.
Host	Rabbit
Reactivity	Chimpanzee, Human
Specificity	Expect reactivity with isoform 1 and isoform 2 of BACH1.
Form	Liquid

Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:10000-1:44000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — BACH1

Entrez GeneID	571
Protein Accession#	Q9BX63;NP_114432
Gene Name	BACH1
Gene Alias	-
Gene Description	BTB and CNC homology 1, basic leucine zipper transcription factor 1
Omim ID	602751
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a transcription factor that belongs to the cap'n'collar type of basic region leucine zipper factor family (CNC-bZip). The encoded protein contains broad complex, tramtrack, bric-a-brac/poxvirus and zinc finger (BTB/POZ) domains, which is atypical of CNC-bZip family members. These BTB/POZ domains facilitate protein-protein interactions and formation of homo- and/or hetero-oligomers. When this encoded protein forms a heterodimer with MafK, it functions as a repressor of Maf recognition element (MARE) and transcription is repressed. Multiple alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq
Other Designations	BTB and CNC homology 1|OTTHUMP00000096564

Publication Reference

- Analysis of the DNA substrate specificity of the human BACH1 helicase associated with breast cancer.

  Gupta R, Sharma S, Sommers JA, Jin Z, Cantor SB, Brosh RM Jr.

  The Journal of Biological Chemistry 2005 Jul; 280(27):25450.

  Application: Incubating, Recombinant protein

- Large-scale characterization of HeLa cell nuclear phosphoproteins.

  Beausoleil SA, Jedrychowski M, Schwartz D, Elias JE, Villen J, Li J, Cohn MA, Cantley LC, Gygi SP.

  PNAS 2004 Aug; 101(33):12130.

- Structure and mechanism of BRCA1 BRCT domain recognition of phosphorylated BACH1 with implications for cancer.

  Clapperton JA, Manke IA, Lowery DM, Ho T, Haire LF, Yaffe MB, Smerdon SJ.

  Nature Structural & Molecular Biology 2004 Jun; 11(6):512.

  Application: WB, Human, U-2 OS cells

Disease

- Breast cancer
- Breast Neoplasms
- Fanconi Anemia
- Genetic Predisposition to Disease
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms