

BACH1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant BACH1.

Catalog # AT1258a

Product Information

Application	WB, E
Primary Accession	O14867
Other Accession	NM_206866
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1B8
Calculated MW	81958

Additional Information

Gene ID	571
Other Names	Transcription regulator protein BACH1, BTB and CNC homolog 1, HA2303, BACH1
Target/Specificity	BACH1 (NP_996749, 396 a.a. ~ 492 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	BACH1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

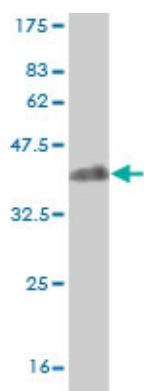
Background

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.

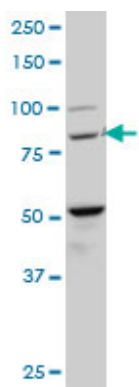
References

Expression of heme oxygenase-1 in human leukemic cells and its regulation by transcriptional repressor Bach1. Miyazaki T, et al. Cancer Sci, 2010 Jun. PMID 20345481. BACH1/FANCI acts with TopBP1 and participates early in DNA replication checkpoint control. Gong Z, et al. Mol Cell, 2010 Feb 12. PMID 20159562. MicroRNA-196 represses Bach1 protein and hepatitis C virus gene expression in human hepatoma cells expressing hepatitis C viral proteins. Hou W, et al. Hepatology, 2010 May. PMID 20127796. A role for Bach1 and HO-2 in suppression of basal and UVA-induced HO-1 expression in human keratinocytes. Zhong JL, et al. Free Radic Biol Med, 2010 Jan 15. PMID 19874887. Prolonged cigarette smoke exposure decreases heme oxygenase-1 and alters Nrf2 and Bach1 expression in human macrophages: roles of the MAP kinases ERK(1/2) and JNK. Goven D, et al. FEBS Lett, 2009 Nov 3. PMID 19822148.

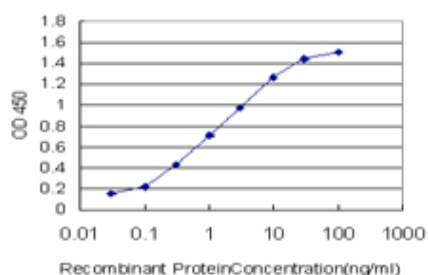
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.41 KDa) .



BACH1 monoclonal antibody (M02), clone 1B8 Western Blot analysis of BACH1 expression in NIH/3T3 (Cat # AT1258a)



Detection limit for recombinant GST tagged BACH1 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.