

**BACH1 Antibody (monoclonal) (M02)****Mouse monoclonal antibody raised against a partial recombinant BACH1.****Catalog # AT1258a****Specification**

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**BACH1 Antibody (monoclonal) (M02) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O14867</a>
Other Accession	<a href="#">NM_206866</a>
Reactivity	Human, Mouse
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	81958

**BACH1 Antibody (monoclonal) (M02) - 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.

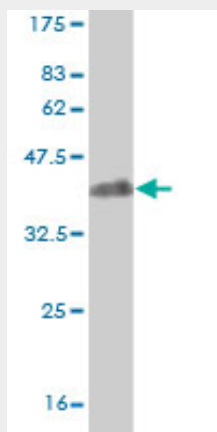
**BACH1 Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

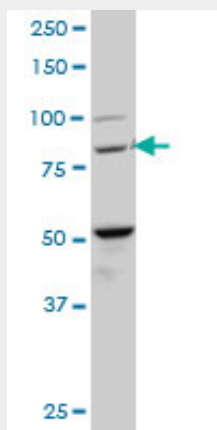
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

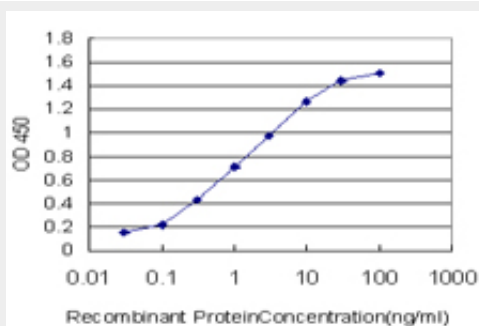
### BACH1 Antibody (monoclonal) (M02) - Images



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.

### BACH1 Antibody (monoclonal) (M02) - 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.

#### **BACH1 Antibody (monoclonal) (M02) - 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/FANCJ 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.