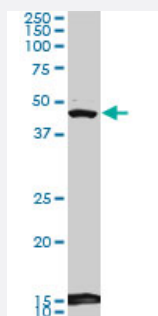


BHLHB2 monoclonal antibody (M01), clone 5B1

Catalog # H00008553-M01

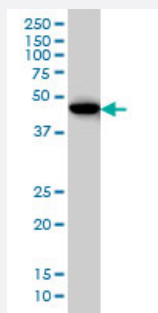
Size 100 ug

Applications



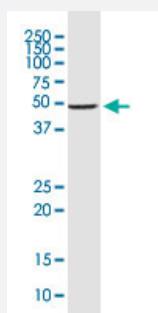
Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1. Western Blot analysis of BHLHB2 expression in NIH/3T3 (Cat # L018V1).



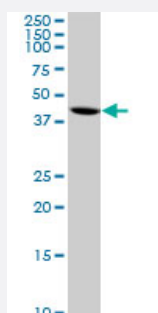
Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1 Western Blot analysis of BHLHB2 expression in HepG2 (Cat # L019V1).



Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1. Western Blot analysis of BHLHB2 expression in K-562.

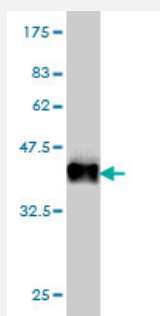
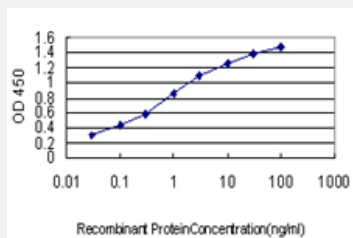


Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1. Western Blot analysis of BHLHB2 expression in Raw 264.7 (Cat # L024V1).

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BHLHB2 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant BHLHB2.
Immunogen	BHLHB2 (NP_003661, 130 a.a. ~ 229 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LSGRNVETGQEMFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGTSRKPSD PAPKVMDFKEKPSSPAKGSEPGKNCVPVIQRTFAH
Host	Mouse
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (90)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1. Western Blot analysis of BHLHB2 expression in NIH/3T3 (Cat # L018V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1 Western Blot analysis of BHLHB2 expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1. Western Blot analysis of BHLHE40 expression in K-562.

[Protocol Download](#)

- Western Blot (Cell lysate)

BHLHB2 monoclonal antibody (M01), clone 5B1. Western Blot analysis of BHLHB2 expression in Raw 264.7 (Cat # L024V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BHLHB2 is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — BHLHE40

Entrez GeneID	8553
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GeneBank Accession#	NM_003670
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Protein Accession#	NP_003661
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Gene Name	BHLHE40
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Gene Alias	BHLHB2, DEC1, FLJ99214, SHARP-2, STRA13, Stra14
Gene Description	basic helix-loop-helix family, member e40
Omim ID	604256
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a basic helix-loop-helix protein expressed in various tissues. Expression in th e chondrocytes is responsive to the addition of Bt2cAMP. The encoded protein is believed to be i nvolved in the control of cell differentiation. [provided by RefSeq
Other Designations	basic helix-loop-helix domain containing, class B, 2 differentially expressed in chondrocytes 1 diff erentiated embryo chondrocyte expressed gene 1

Publication Reference

- [Hypoxia causes pancreatic \$\beta\$ -cell dysfunction and impairs insulin secretion by activating the transcriptional repressor BHLHE40.](#)

Tomonori Tsuyama, Yoshifumi Sato, Tatsuya Yoshizawa, Takaaki Matsuoka, Kazuya Yamagata.
EMBO reports 2023 Jun; e56227:0.

Application: WB-Ti, Mouse, Mouse BAT, Heart, HPT, islets, kidney, liver, lung, muscle. WAT

- [MicroRNA-18a inhibits hypoxia-inducible factor 1-alpha activity and lung metastasis in basal breast cancers.](#)

Krutilina R, Sun W, Sethuraman A, Brown M, Seagroves TN, Pfeffer LM, Ignatova T, Fan M.
Breast Cancer Research 2014 Jul; 16(4):R78.

Application: WB-Tr, Human, MB231RN-LM cells

- [A new role for SREBP-1 transcription factors in the regulation of muscle mass and muscle cell differentiation.](#)

Lecomte V, Meugnier E, Euthine V, Durand C, Freyssenet D, Nemoz G, Rome S, Vidal H, Lefai E.
Molecular and Cellular Biology 2009 Dec; 30(5):1182.

Application: WB, Human, Human skeletal muscle cells

Pathway

- [Circadian rhythm - mammal](#)

Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Chronobiology Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mood Disorders](#)
- [Sleep Disorders](#)