

**HOXB8 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant HOXB8.****Catalog # AT2413a****Specification**

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**HOXB8 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P17481</a>
Other Accession	<a href="#">NM_024016</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	27574

**HOXB8 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 3218**Other Names**

Homeobox protein Hox-B8, Homeobox protein Hox-24, Homeobox protein Hox-2D, HOXB8, HOX2D

**Target/Specificity**

HOXB8 (NP\_076921, 16 a.a. ~ 114 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**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**

HOXB8 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

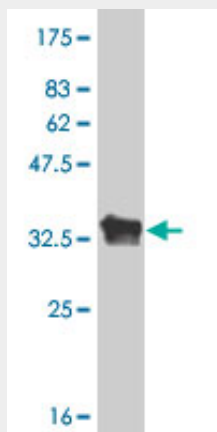
**HOXB8 Antibody (monoclonal) (M01) - Protocols**

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

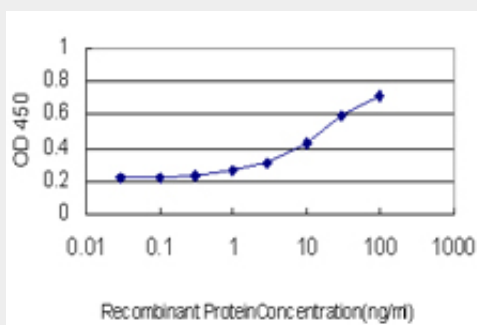
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

### HOXB8 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 kDa) .



Detection limit for recombinant GST tagged HOXB8 is approximately 1ng/ml as a capture antibody.

### HOXB8 Antibody (monoclonal) (M01) - Background

This gene is a member of the Antp homeobox family and encodes a nuclear protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded protein functions as a sequence-specific transcription factor that is involved in development. Increased expression of this gene is associated with colorectal cancer. Mice that have had the murine ortholog of this gene knocked out exhibit an excessive pathologic grooming behavior. This behavior is similar to the behavior of humans suffering from the obsessive-compulsive spectrum disorder trichotillomania.

### HOXB8 Antibody (monoclonal) (M01) - References

Range of HOX/TALE superclass associations and protein domain requirements for HOXA13:MEIS interaction. Williams TM, et al. Dev Biol, 2005 Jan 15. PMID 15617687. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039. Complete mutation analysis panel of the 39 human HOX genes. Kosaki K, et al. Teratology, 2002 Feb. PMID 11857506. Hoxb8 is required for normal grooming behavior in mice. Greer JM, et al. Neuron, 2002 Jan 3. PMID 11779477. HoxB8 requires its Pbx-interaction motif to block differentiation of primary myeloid progenitors and of most cell line models of myeloid

differentiation. Knoepfler PS, et al. Oncogene, 2001 Sep 6. PMID 11571641.