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HOXB8 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HOXB8.
Catalog # AT2413a

Product Information

Application	WB, E
Primary Accession	P17481
Other Accession	NM_024016
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4F8
Calculated MW	27574

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

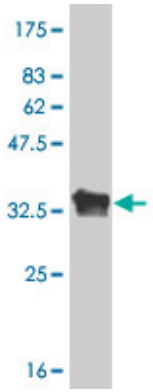
Background

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.

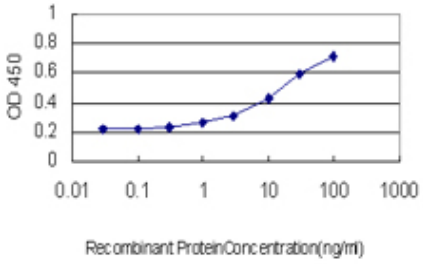
References

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.

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.