10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HOXB7 Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant HOXB7.
Catalog # AT2411a

Product Information

Application	WB, E
Primary Accession	P09629
Other Accession	NM_004502
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5B2
Calculated MW	24015

Additional Information

Gene ID	3217
Other Names	Homeobox protein Hox-B7, Homeobox protein HHOC1, Homeobox protein Hox-2C, HOXB7, HOX2C
Target/Specificity	HOXB7 (NP_004493, 55 a.a. ~ 120 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	HOXB7 Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

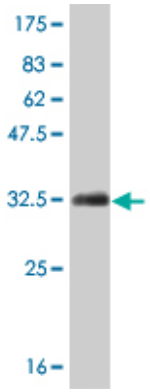
This gene is a member of the Antp homeobox family and encodes a protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded nuclear protein functions as a sequence-specific transcription factor that is involved in cell proliferation and differentiation. Increased expression of this gene is associated with some cases of melanoma and ovarian carcinoma.

References

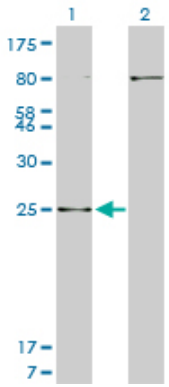
Overexpression of HOXB7 homeobox gene in oral cancer induces cellular proliferation and is associated

with poor prognosis. De Souza Setubal Destro MF, et al. Int J Oncol, 2010 Jan. PMID 19956843.Differential expression of HOXB7 gene in multiple myeloma and extramedullary multiple myeloma patients. Novak EM, et al. Eur J Haematol, 2010 Feb 1. PMID 19878270.Inhibition of 13-cis retinoic acid-induced gene expression of homeobox B7 by thalidomide. Milanovi? D, et al. Int J Cancer, 2007 Sep 15. PMID 17514648.A role for the HOXB7 homeodomain protein in DNA repair. Rubin E, et al. Cancer Res, 2007 Feb 15. PMID 17308091.Correlation between genetic variations in Hox clusters and Hirschsprung's disease. Garcia-Barcel? MM, et al. Ann Hum Genet, 2007 Jul. PMID 17274802.

Images

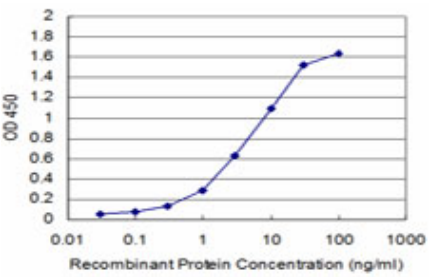


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33 KDa) .

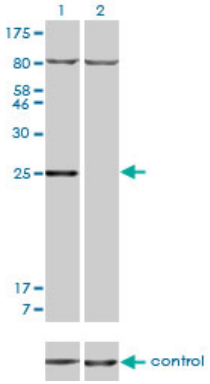


Western Blot analysis of HOXB7 expression in transfected 293T cell line by HOXB7 monoclonal antibody (M04), clone 5B2.

Lane 1: HOXB7 transfected lysate(24 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged HOXB7 is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of HOXB7 over-expressed 293 cell line, cotransfected with HOXB7 Validated Chimera RNAi ((Cat # AT2411a)

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