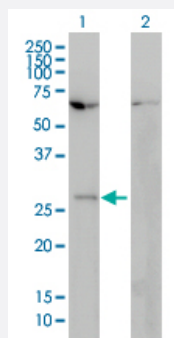


HOXB7 monoclonal antibody (M01), clone 4F9

Catalog # H00003217-M01

Size 100 ug

Applications

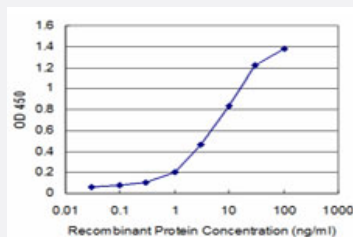


Western Blot (Transfected lysate)

Western Blot analysis of HOXB7 expression in transfected 293T cell line by HOXB7 monoclonal antibody (M01), clone 4F9.

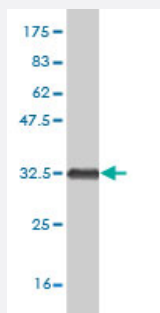
Lane 1: HOXB7 transfected lysate(23.97 KDa).

Lane 2: Non-transfected lysate.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HOXB7 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (33 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant HOXB7.

Immunogen	HOXB7 (NP_004493, 55 a.a. ~ 120 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MQGLYPGGGGMAGQSAAGVYAAGYGLEPSSFNMHCAPEQNLSGVCPGDSAKAAGAKEQRD SDLAA
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33 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 (Transfected lysate)

Western Blot analysis of HOXB7 expression in transfected 293T cell line by HOXB7 monoclonal antibody (M01), clone 4F9.

Lane 1: HOXB7 transfected lysate(23.97 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged HOXB7 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — HOXB7

Entrez GeneID [3217](#)

GeneBank Accession# [NM_004502](#)

Protein Accession#	NP_004493
Gene Name	HOXB7
Gene Alias	HHO.C1, HOX2, HOX2C, Hox-2.3
Gene Description	homeobox B7
Omim ID	142962
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the Antp homeobox family and encodes a protein with a homeobox DN A-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. [provided by RefSeq]
Other Designations	homeo box 2C homeo box B7 homeo box c1 protein

Publication Reference

- [Evidence for a functional role of epigenetically regulated midcluster HOXB genes in the development of Barrett esophagus.](#)

di Pietro M, Lao-Sirieix P, Boyle S, Cassidy A, Castillo D, Saadi A, Eskeland R, Fitzgerald RC.
PNAS 2012 Jun; 109(23):9077.

Application: WB-Ti, Human, Human barrett esophagus

- [Oncogenic HoxB7 requires TALE cofactors and is inactivated by a dominant-negative Pbx1 mutant in a cell-specific manner.](#)

Fernandez LC, Errico MC, Bottero L, Penkov D, Resnati M, Blasi F, Care A.
Cancer Letters 2008 Apr; 266(2):144.

Application: WB, Human, SK-BR-3

Disease

- [Hirschsprung Disease](#)