

HOXA7 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant HOXA7.****Catalog # AT2407a****Specification**

HOXA7 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	P31268
Other Accession	NM_006896
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	25355

HOXA7 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 3204**Other Names**

Homeobox protein Hox-A7, Homeobox protein Hox 11, Homeobox protein Hox-1A, HOXA7, HOX1A

Target/Specificity

HOXA7 (NP_008827, 58 a.a. ~ 112 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

HOXA7 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

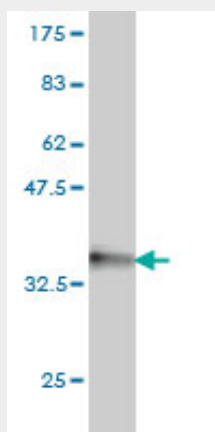
HOXA7 Antibody (monoclonal) (M01) - Protocols

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

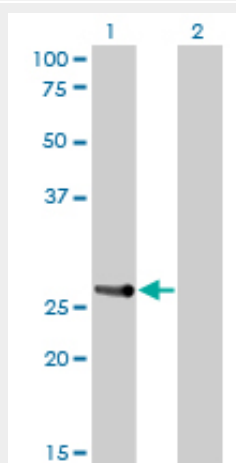
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

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

HOXA7 Antibody (monoclonal) (M01) - Images



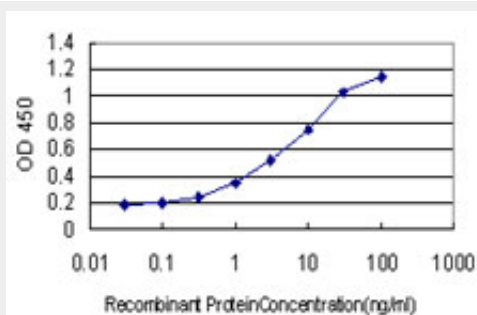
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.79 KDa) .



Western Blot analysis of HOXA7 expression in transfected 293T cell line by HOXA7 monoclonal antibody (M01), clone 2F2.

Lane 1: HOXA7 transfected lysate (25.4 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged HOXA7 is approximately 0.1ng/ml as a capture antibody.

HOXA7 Antibody (monoclonal) (M01) - Background

In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. For example, the encoded protein represses the transcription of differentiation-specific genes during keratinocyte proliferation, but this repression is then overcome by differentiation signals. This gene is highly similar to the antennapedia (Antp) gene of *Drosophila*.

HOXA7 Antibody (monoclonal) (M01) - References

1.HOX gene analysis of endothelial cell differentiation in human bone marrow-derived mesenchymal stem cells.Chung N, Jee BK, Chae SW, Jeon YW, Lee KH, Rha HK.Mol Biol Rep. 2009 Feb;36(2):227-35. Epub 2007 Oct 30.