

OTX1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant OTX1.****Catalog # AT3159a****Specification**

OTX1 Antibody (monoclonal) (M01) - Product Information

Application	WB, IF, E
Primary Accession	P32242
Other Accession	NM_014562
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	37327

OTX1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 5013**Other Names**

Homeobox protein OTX1, Orthodenticle homolog 1, OTX1

Target/Specificity

OTX1 (NP_055377, 10 a.a. ~ 116 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IF~~1:50~200

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

OTX1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

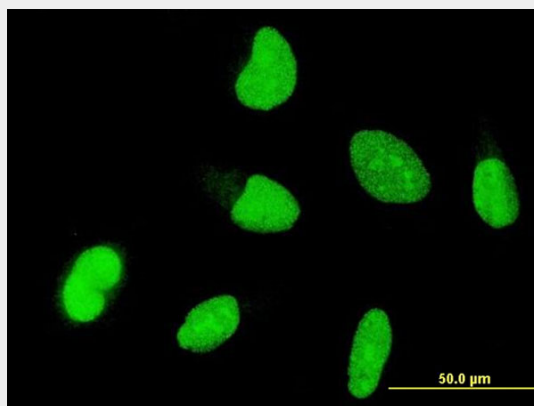
OTX1 Antibody (monoclonal) (M01) - Protocols

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

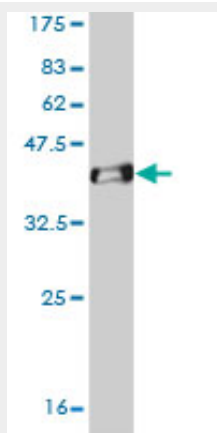
- [Western Blot](#)
- [Blocking Peptides](#)

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

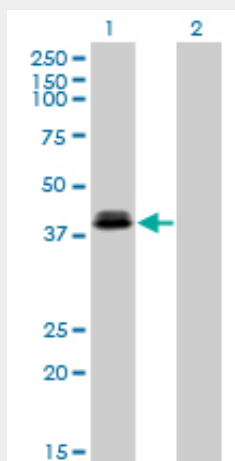
OTX1 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to OTX1 on HeLa cell . [antibody concentration 10 ug/ml]

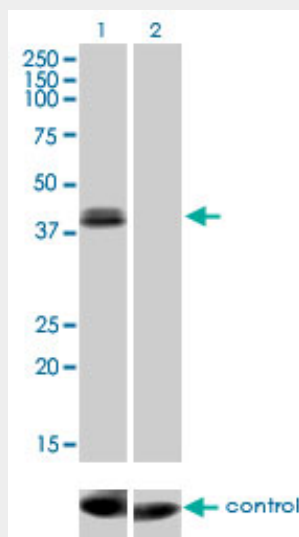


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.51 KDa) .

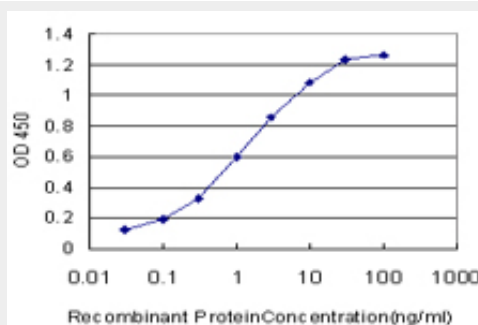


Western Blot analysis of OTX1 expression in transfected 293T cell line by OTX1 monoclonal antibody (M01), clone 1F2.

Lane 1: OTX1 transfected lysate(37.3 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of OTX1 over-expressed 293 cell line, cotransfected with OTX1 Validated Chimera RNAi (Cat # AT3159a)



Detection limit for recombinant GST tagged OTX1 is approximately 0.03ng/ml as a capture antibody.

OTX1 Antibody (monoclonal) (M01) - Background

This gene encodes a member of the bicoid sub-family of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and may play a role in brain and sensory organ development. A similar protein in mice is required for proper brain and sensory organ development and can cause epilepsy.

OTX1 Antibody (monoclonal) (M01) - References

Expression of the homeobox genes OTX2 and OTX1 in the early developing human brain. Larsen KB, et al. J Histochem Cytochem, 2010 Jul. PMID 20354145. Expression of the brain transcription factor OTX1 occurs in a subset of normal germinal-center B cells and in aggressive Non-Hodgkin Lymphoma. Omodei D, et al. Am J Pathol, 2009 Dec. PMID 19893048. Identification of seven new prostate cancer susceptibility loci through a genome-wide association study. Eeles RA, et al. Nat Genet, 2009 Oct. PMID 19767753. Shifted Transversal Design smart-pooling for high coverage interactome mapping. Xin X, et al. Genome Res, 2009 Jul. PMID 19447967. Expression of the

homeobox genes PAX6, OTX2, and OTX1 in the early human fetal retina. Larsen KB, et al. Int J Dev Neurosci, 2009 Aug. PMID 19414065.