

**OTX2 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1568a**

**Specification**

**OTX2 Antibody - Product Information**

Application	<b>E, WB, IHC, IF</b>
Primary Accession	<a href="#">P32243</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>32kDa KDa</b>

**Description**

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 forebrain development. Tissue specificity: Expressed in brain.

**Immunogen**

Purified recombinant fragment of human OTX2 expressed in E. Coli. <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**OTX2 Antibody - Additional Information**

**Gene ID** 5015

**Other Names**

Homeobox protein OTX2, Orthodenticle homolog 2, OTX2

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IHC~~1/200 - 1/1000  
IF~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

OTX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**OTX2 Antibody - Protein Information**

**Name** OTX2

**Function**

Transcription factor probably involved in the development of the brain and the sense organs. Can bind to the bicoid/BCD target sequence (BTS): 5'-TCTAATCCC-3'.

**Cellular Location**

Nucleus.

**OTX2 Antibody - 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](#)

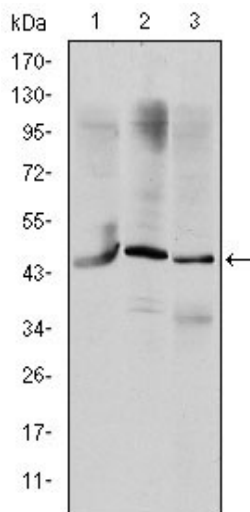
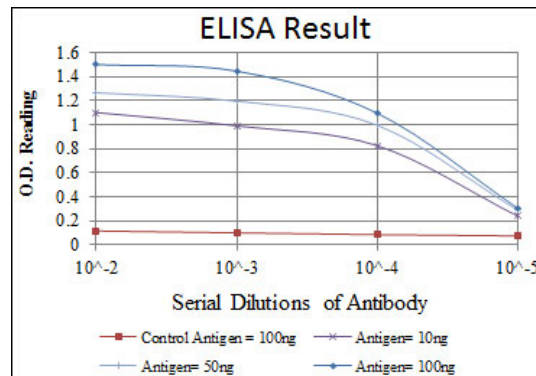


Figure 1: Western blot analysis using OTX2 mouse mAb against HepG2 (1), Jurkat (2), and NTERA-2 (3) cell lysate.

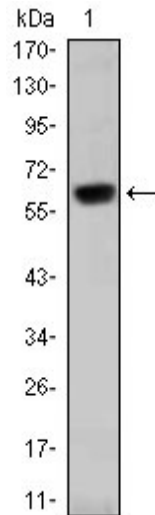


Figure 2: Western blot analysis using OTX2 mAb against human OTX2 (AA: 40-297) recombinant protein. (Expected MW is 65 kDa)

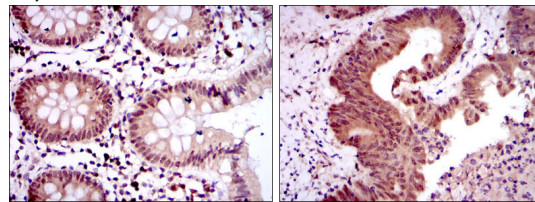


Figure 3: Immunohistochemical analysis of paraffin-embedded colon tissues (left) and colon cancer tissues (right) using OTX2 mouse mAb with DAB staining.

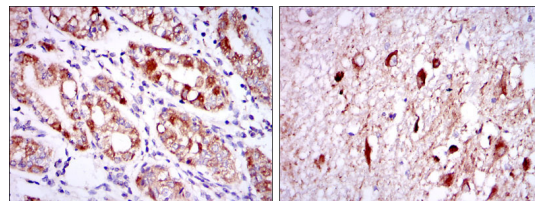


Figure 4: Immunohistochemical analysis of paraffin-embedded stomach tissues (left) and brain tissues (right) using OTX2 mouse mAb with DAB staining.

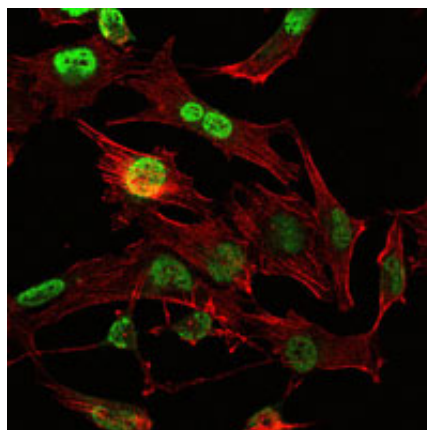


Figure 5: Immunofluorescence analysis of U251 cells using OTX2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

## OTX2 Antibody - References

1. Hum Mutat. 2008 Nov;29(11):E278-83. 2. Cancer Res. 2010 Jan 1;70(1):181-91.