

# OTX2 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1567a

## Product Information

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<b>Application</b>	WB, IHC, FC, ICC, E
<b>Primary Accession</b>	<a href="#">P32243</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	1H12C4B5
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	31636
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human OTX2 expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	5015
<b>Other Names</b>	Homeobox protein OTX2, Orthodenticle homolog 2, OTX2
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	OTX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	OTX2
<b>Function</b>	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.

## References

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

## Images

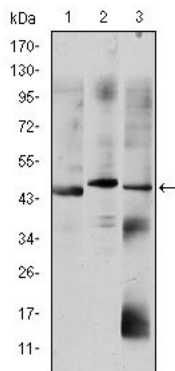


Figure 1: Western blot analysis using OTX2 mouse mAb against HepG2 (1), Jurkat (2), and NTERA-2 (3) cell lysate.

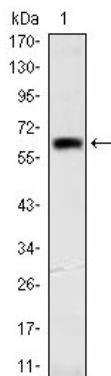


Figure 2: Western blot analysis using OTX2 mAb against human OTX2 (AA: 40-297) recombinant protein. (Expected MW is 65 kDa)

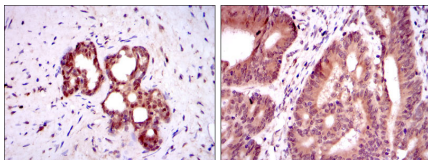


Figure 3: Immunohistochemical analysis of paraffin-embedded prostate tissues (left) and colon cancer tissues (right) using OTX2 mouse mAb with DAB staining.

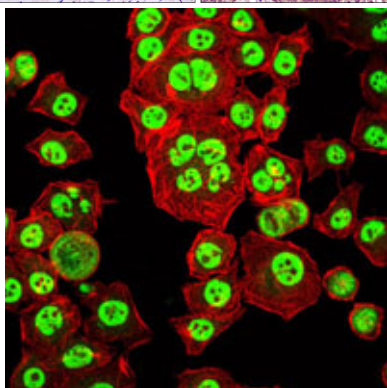
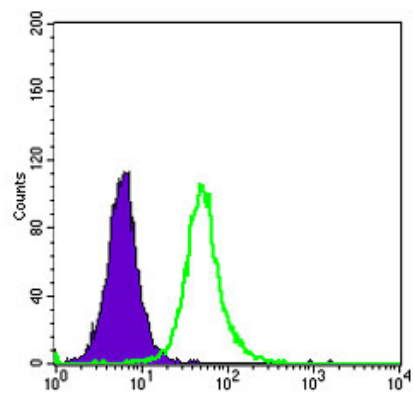


Figure 4: Immunofluorescence analysis of HepG2 cells using OTX2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Figure 5: Flow cytometric analysis of HepG2 cells using OTX2 mouse mAb (green) and negative control (purple).



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