10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

OTX2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1567a

Specification

OTX2 Antibody - Product Information

Application	**E, WB, IHC, IF, FC**
Primary Accession	P32243
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**32kDa KDa**

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.

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
FC~~1/200 - 1/400

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

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Name OTX2

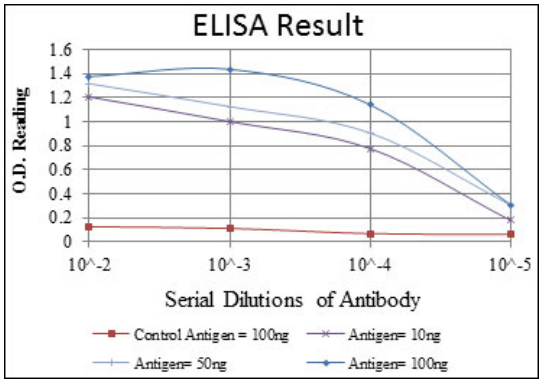
Function
Transcription factor probably involved in the development of the brain and the sense organs. Can bind to the bicoid/BCD target sequence (BTS): 5'-TCTAATCCC-3'.

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 Cytomety
- Cell Culture



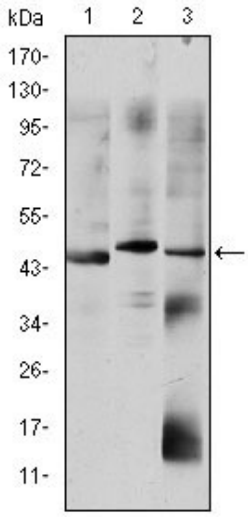


Figure 1: Western blot analysis using OTX2 mouse mAb against HepG2 (1), Jurkat (2), and NTERA-2 (3) cell lysate.

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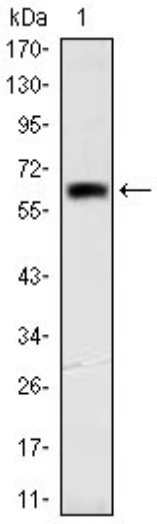

Figure 2: Western blot analysis using OTX2 mAb against human OTX2 (AA: 40-297) recombinant protein. (Expected MW is 65 kDa)

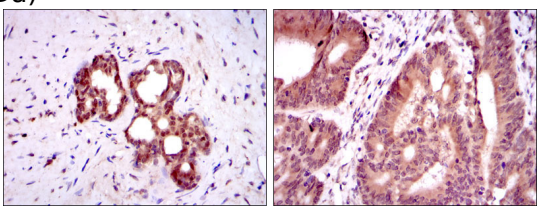

Figure 3: Immunohistochemical analysis of paraffin-embedded prostate tissues (left) and colon cancer tissues (right) using OTX2 mouse mAb with DAB staining.

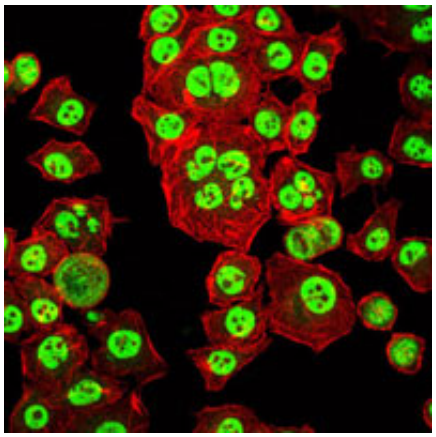

Figure 4: Immunofluorescence analysis of HepG2 cells using OTX2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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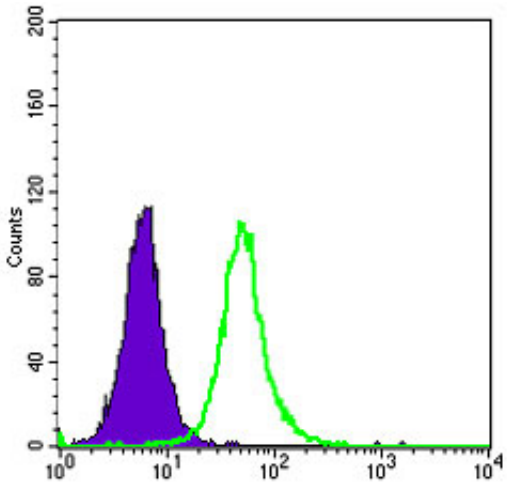

Figure 5: Flow cytometric analysis of HepG2 cells using OTX2 mouse mAb (green) and negative control (purple).

OTX2 Antibody - References

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