

OTX2 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1568a

Specification

OTX2 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Calculated MW **Description** WB, IHC, ICC, E <u>P32243</u> Human Mouse Monoclonal IgG1 32kDa KDa

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 WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~N/A E~~1/10000

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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

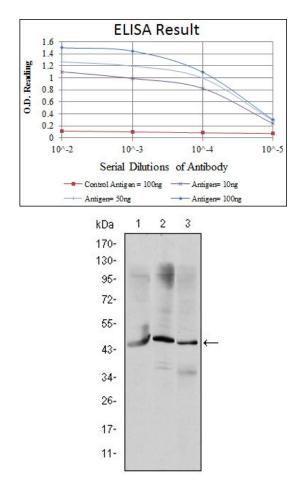


Figure 1: Western blot analysis using OTX2 mouse mAb against HepG2 (1), Jurkat (2), and NTERA-2 (3) cell lysate.

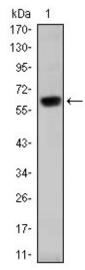


Figure 2: Western blot analysis using OTX2 mAb against human OTX2 (AA: 40-297) recombinant protein. (Expected MW is 65 kDa)

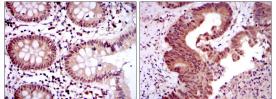


Figure 3: Immunohistochemical analysis of paraffin-embedded colon tissues (left) and colon cancer tissues (right) using OTX2 mouse mAb with DAB staining.

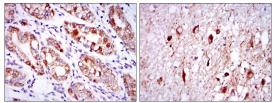


Figure 4: Immunohistochemical analysis of paraffin-embedded stomach tissues (left) and brain tissues (right) using OTX2 mouse mAb with DAB staining.

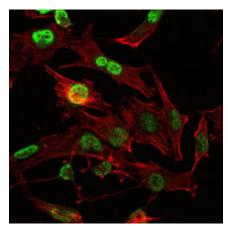


Figure 5: Immunofluorescence analysis of U251 cells using OTX2 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

OTX2 Antibody - References



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