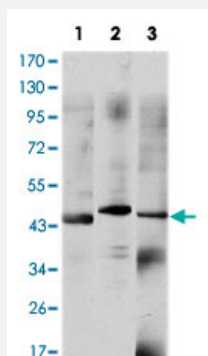


# OTX2 monoclonal antibody, clone 1H12C4B5

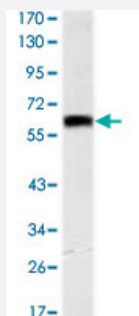
Catalog # MAB10288      Size 100 uL

## Applications



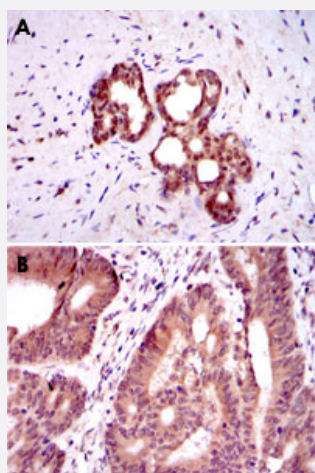
### Western Blot (Cell lysate)

Western blot analysis using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) against HepG2 (1), Jurkat (2), and NTERA-2 (3) cell lysate.



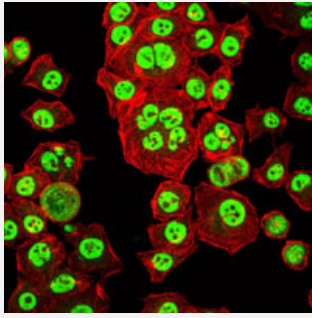
### Western Blot (Recombinant protein)

Western blot analysis using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) against recombinant human OTX2 protein.



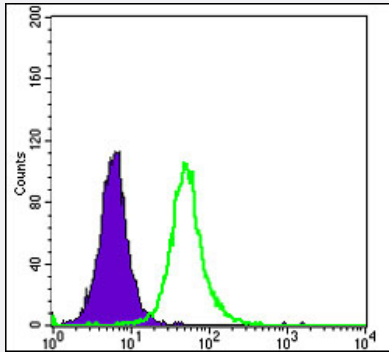
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate tissue (A) and colon cancer tissue (B) using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) with DAB staining.



## Immunofluorescence

Immunofluorescence analysis of HepG2 cells using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



## Flow Cytometry

Flow cytometric analysis of HepG2 cells using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) (green) and negative control (purple).

## Specification

|                      |                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against recombinant OTX2.                                                                                                                                                                       |
| Immunogen            | Recombinant protein corresponding to human OTX2.                                                                                                                                                                                 |
| Host                 | Mouse                                                                                                                                                                                                                            |
| Theoretical MW (kDa) | 32                                                                                                                                                                                                                               |
| Reactivity           | Human                                                                                                                                                                                                                            |
| Form                 | Liquid                                                                                                                                                                                                                           |
| Isotype              | IgG1                                                                                                                                                                                                                             |
| Recommend Usage      | ELISA (1:10000)<br>Western Blot (1:500-1:2000)<br>Immunohistochemistry (1:200-1:1000)<br>Immunofluorescence (1:200-1:1000)<br>Flow cytometry (1:200-1:400)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer       | In ascites (0.03% sodium azide)                                                                                                                                                                                                  |
| Storage Instruction  | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                           |

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) against HepG2 (1), Jurkat (2), and NTERA-2 (3) cell lysate.

- Western Blot (Recombinant protein)

Western blot analysis using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) against recombinant human OTX2 protein.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate tissue (A) and colon cancer tissue (B) using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) with DAB staining.

- Immunofluorescence

Immunofluorescence analysis of HepG2 cells using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of HepG2 cells using OTX2 monoclonal antibody, clone 1H12C4B5 (Cat # MAB10288) (green) and negative control (purple).

## Gene Info — OTX2

**Entrez GeneID**[5015](#)**Gene Name**

OTX2

**Gene Alias**

MCOPS5, MGC45000

**Gene Description**

orthodenticle homeobox 2

**Omim ID**[600037 610125](#)**Gene Ontology**[Hyperlink](#)

**Gene Summary**

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. Two transcript variants encoding distinct isoforms have been identified for this gene. Other alternative splice variants may exist, but their full length sequences have not been determined. [provided by RefSeq]

**Other Designations**

OTTHUMP00000064776|homeobox protein OTX2|orthodenticle homolog 2

**Disease**

- [Anophthalmos](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Coloboma](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Microphthalmos](#)
- [Parkinson disease](#)
- [Schizophrenia](#)