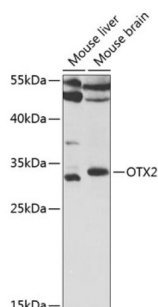


## Homeobox Protein OTX2 (OTX2) Antibody

Catalogue No.: abx004195



Western blot analysis of various lysates using OTX2 Antibody at 1/1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 60s.

OTX2 Antibody is a Rabbit Polyclonal antibody against OTX2. This gene encodes a member of the bicoid subfamily of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and plays a role in brain, craniofacial, and sensory organ development. The encoded protein also influences the proliferation and differentiation of dopaminergic neuronal progenitor cells during mitosis. Mutations in this gene cause syndromic microphthalmia 5 (MCOPS5) and combined pituitary hormone deficiency 6 (CPHD6). This gene is also suspected of having an oncogenic role in medulloblastoma. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Pseudogenes of this gene are known to exist on chromosomes two and nine.

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Target:</b>                | Homeobox Protein OTX2 (OTX2)                                                                               |
| <b>Clonality:</b>             | Polyclonal                                                                                                 |
| <b>Reactivity:</b>            | Mouse                                                                                                      |
| <b>Tested Applications:</b>   | ELISA, WB                                                                                                  |
| <b>Host:</b>                  | Rabbit                                                                                                     |
| <b>Recommended dilutions:</b> | ELISA: 1 µg/ml, WB: 1/500 - 1/2000. Optimal dilutions/concentrations should be determined by the end user. |
| <b>Conjugation:</b>           | Unconjugated                                                                                               |
| <b>Immunogen:</b>             | Recombinant protein corresponding to OTX2. The exact sequence is proprietary.                              |
| <b>Isotype:</b>               | IgG                                                                                                        |
| <b>Form:</b>                  | Liquid                                                                                                     |
| <b>Purification:</b>          | Purified by affinity chromatography.                                                                       |
| <b>Storage:</b>               | Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.                                             |

# Datasheet

Version: 3.0.0  
Revision date: 24 Oct 2025



**UniProt Primary AC:** P32243 ([UniProt](#), [ExPASy](#))

**Gene Symbol:** OTX2

**GeneID:** [5015](#)

**NCBI Accession:** NP\_068374.1

**KEGG:** hsa:5015

**String:** [9606.ENSP00000343819](#)

**Molecular Weight:** Calculated MW: 32 kDa  
Observed MW: 32 kDa

**Buffer:** PBS, pH 7.3, containing 0.02% sodium azide, 50% glycerol.

**Concentration:** > 0.2 mg/ml

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only