

**Anti-Otx2 Picoband Antibody**  
**Catalog # ABO12035****Specification**

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**Anti-Otx2 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P32243</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Homeobox protein OTX2(OTX2) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Otx2 Picoband Antibody - Additional Information**

**Gene ID** 5015

**Other Names**

Homeobox protein OTX2, Orthodenticle homolog 2, OTX2

**Calculated MW**

31636 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Nucleus .

**Tissue Specificity**

Expressed in brain.

**Protein Name**

Homeobox protein OTX2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Otx2 (258-289aa DYKDQTASWKLNFNADCLDYKDQTSSWKFLQVL), identical to the related mouse sequence.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the paired homeobox family. Bicoid subfamily.

**Anti-Otx2 Picoband 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'.

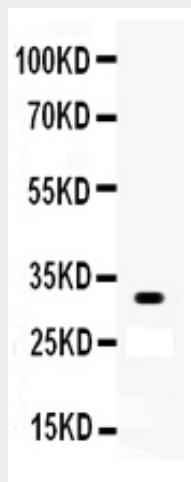
**Cellular Location**

Nucleus.

**Anti-Otx2 Picoband 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 Cytometry](#)
- [Cell Culture](#)

**Anti-Otx2 Picoband Antibody - Images**

Anti- Otx2 Picoband antibody, ABO12035, Western blotting All lanes: Anti Otx2 (ABO12035) at 0.5ug/ml WB: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 32KD Observed bind size: 32KD

#### **Anti-Otx2 Picoband Antibody - Background**

OTX2 is also known as CPHD6 or MCOPS5. 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.