

Product datasheet for **TA307061**

OTX2 Rabbit Monoclonal Antibody [Clone ID: EPR3348]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EPR3348
Applications:	WB
Recommended Dilution:	WB: 1:1,000 - 10,000
Reactivity:	Human (Does not react with: Mouse, Rat)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in human OTX2 was used as an immunogen.
Formulation:	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	32 kDa
Gene Name:	orthodenticle homeobox 2
Database Link:	NP_068374 Entrez Gene 18424 Mouse Entrez Gene 305858 Rat Entrez Gene 5015 Human P32243



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Background:

Homeobox protein OTX2 is a member of the bicoid sub-family of homeodomain-containing transcription factors. It acts as a transcription factor and is reported to play a role in brain and sensory organ development (1); more specifically, forebrain and eye development (2). The OTX2 is required to determine mesencephalic versus metencephalic (cerebellum/pons) territory during embryogenesis. This function of OTX2 primarily involves positioning and maintaining the mid-hindbrain organizer at the border between midbrain and anterior hindbrain (3). OTX2 is expressed during development in the neuroepithelium of most of the forebrain and midbrain, including the eye domain. In mice, complete elimination of the OTX2 function results in the absence of the forebrain and embryonic lethality (4). Defects in OTX2 are the caused of microphthalmia syndromic type 5, a clinically heterogeneous disorder of the eye formation (5).

Synonyms:

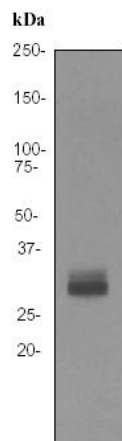
CPHD6; MCOP55

Note:

Does not react with Mouse, Rat

Protein Families:

Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors

Product images:

Western blot - Otx2 antibody [EPR3348]; Anti-Otx2 antibody [EPR3348] at 1/1000 dilution + Y79 cell lysate at 10 ug. Secondary.HRP labelled goat anti-rabbit IgG at 1/1000 dilution.Predicted band size : 32 kDa.