

# Product datasheet

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ARG55529 anti-OTX2 antibody

Package: 100 μl Store at: -20°C

# **Summary**

Product Description Rabbit Polyclonal antibody recognizes OTX2

Tested Reactivity Hu

Predict Reactivity Xenopus, Zfsh

Tested Application WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name OTX2

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 261-289 (C-terminus) of Human OTX2.

Conjugation Un-conjugated

Alternate Names Homeobox protein OTX2; MCOPS5; CPHD6; Orthodenticle homolog 2

## **Application Instructions**

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Y79	

## **Properties**

Form Liquid

**Purification** Purification with Protein A and immunogen peptide.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Database links GeneID: 5015 Human

Swiss-port # P32243 Human

Gene Symbol OTX2

Gene Full Name orthodenticle homeobox 2

Background 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. [provided by RefSeq, Jul 2012]

Function Probably plays a role in the development of the brain and the sense organs. Can bind to the BCD target

sequence (BTS): 5'-TCTAATCCC-3'. [UniProt]

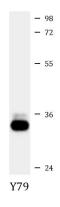
Research Area Controls and Markers antibody; Developmental Biology antibody; Gene Regulation antibody;

Neuroscience antibody

Calculated Mw 32 kDa

Cellular Localization Nucleus.

## **Images**



#### ARG55529 anti-OTX2 antibody WB image

Western blot: 35  $\mu g$  of Y79 cell lysate stained with ARG55529 anti-OTX2 antibody.