

Datasheet for ABIN3043586
anti-OTX2 antibody (C-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	OTX2
Binding Specificity:	AA 258-289, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OTX2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Otx2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Otx2, identical to the related mouse sequence.
Sequence:	DYKDQTASWK LNFNADCLDY KDQTSSWKFKQ VL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Otx2 Antibody Picoband® (ABIN3043586). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: OTX2

Alternative Name: OTX2 ([OTX2 Products](#))

Background: Synonyms: Homeobox protein OTX2, Orthodenticle homolog 2, OTX2, Tissue Specificity: Expressed in brain.

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.

Sequence Similarities: Belongs to the paired homeobox family. Bicoid subfamily.

Molecular Weight: 32 kDa

Gene ID: 5015

UniProt: [P32243](#)

Pathways: [Dopaminergic Neurogenesis](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human

1. Bunt J, et al. OTX2 sustains a bivalent-like state of OTX2-bound promoters in medulloblastoma by maintaining their H3K27me3 levels. Acta Neuropathol, 2013 Mar. 2. Gat-Yablonski G. Brain development is a multi-level regulated process--the case of the OTX2 gene. Pediatr Endocrinol Rev, 2011 Sep. 3. Liu Z, et al. Specific expression pattern of a novel Otx2 splicing variant during neural differentiation. Gene, 2013 Jul 1.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti- Otx2 Picoband antibody, Western blotting All lanes: Anti Otx2 at 0.5ug/ml WB: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 32KD Observed bind size: 32KD