

ARG41547 anti-Otx1 + Otx2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Otx1 + Otx2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ChIP, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Otx1 + Otx2
Species	Human
Immunogen	Synthetic peptide of Human Otx1/2.
Conjugation	Un-conjugated
Alternate Names	Otx1: Orthodenticle homolog 1; Homeobox protein OTX1 Otx2: CPHD6; MCOPS5

Application Instructions

Application table	Application	Dilution
	ChIP	Assay-dependent
	IHC-P	1:100 - 1:500
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Y79	
Observed Size	~ 34 kDa	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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. 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.

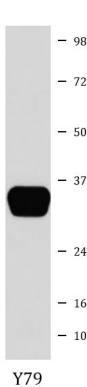
Note

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

Bioinformation

Gene Symbol	OTX1; OTX2
Gene Full Name	orthodenticle homeobox 1; orthodenticle homeobox 2
Background	<p>Otx1: This gene encodes a member of the bicoid sub-family of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and may play a role in brain and sensory organ development. A similar protein in mouse is required for proper brain and sensory organ development and can cause epilepsy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]</p> <p>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. [provided by RefSeq, Jul 2012]</p>
Function	<p>Otx1: 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]</p> <p>Otx2: 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'. [UniProt]</p>
Calculated Mw	Otx1: 37 kDa Otx2: 32 kDa
Cellular Localization	Otx1 and Otx2: Nucleus. [UniProt]

Images



ARG41547 anti-Otx1 + Otx2 antibody WB image

Western blot: Y79 cell lysate stained with ARG41547 anti-Otx1 + Otx2 antibody.