

Datasheet for ABIN1881611
anti-OTX2 antibody (C-Term)



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Overview

Quantity:	400 µL
Target:	OTX2
Binding Specificity:	AA 261-289, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OTX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This OTX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 261-289 amino acids from the C-terminal region of human OTX2.
Clone:	RB17482
Isotype:	Ig Fraction
Predicted Reactivity:	X, Zf, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	OTX2
Alternative Name:	OTX2 (OTX2 Products)

Target Details

Background:	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 mice is required for proper forebrain development. Two transcript variants encoding distinct isoforms have been identified for this gene. Other alternative splice variants may exist, but their full length sequences have not been determined.
Molecular Weight:	31636
NCBI Accession:	NP_001257452 , NP_001257453 , NP_001257454 , NP_068374 , NP_758840
UniProt:	P32243
Pathways:	Dopaminergic Neurogenesis

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C, -20 °C
Expiry Date:	6 months

Publications

Product cited in:	Masuda, Esumi: "SOX9, through interaction with microphthalmia-associated transcription factor (MITF) and OTX2, regulates BEST1 expression in the retinal pigment epithelium." in: The Journal of biological chemistry , Vol. 285, Issue 35, pp. 26933-44, (2010) (PubMed).
	Chung, Licznarski, Alavian, Simeone, Lin, Martin, Vance, Isacson: "The transcription factor orthodenticle homeobox 2 influences axonal projections and vulnerability of midbrain

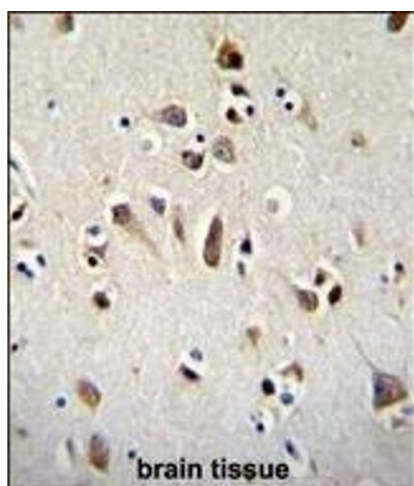
dopaminergic neurons." in: **Brain : a journal of neurology**, Vol. 133, Issue Pt 7, pp. 2022-31, (2010) ([PubMed](#)).

Ashkenazi-Hoffnung, Lebenthal, Wyatt, Ragge, Dateki, Fukami, Ogata, Phillip, Gat-Yablonski: "A novel loss-of-function mutation in OTX2 in a patient with anophthalmia and isolated growth hormone deficiency." in: **Human genetics**, Vol. 127, Issue 6, pp. 721-9, (2010) ([PubMed](#)).

Bailey, Xie, Do, Montpetit, Diaz, Mohan, Keavney, Yusuf, Gerstein, Engert, Anand: "Variation at the NFATC2 locus increases the risk of thiazolidinedione-induced edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) study." in: **Diabetes Care**, Vol. 33, Issue 10, pp. 2250-3, (2010) ([PubMed](#)).

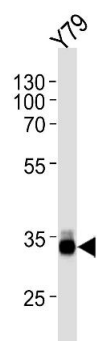
Gonzalez-Rodriguez, Pelcastre, Tovilla-Canales, Garcia-Ortiz, Amato-Almanza, Villanueva-Mendoza, Espinosa-Mattar, Zenteno: "Mutational screening of CHX10, GDF6, OTX2, RAX and SOX2 genes in 50 unrelated microphthalmia-anophthalmia-coloiboma (MAC) spectrum cases." in: **The British journal of ophthalmology**, Vol. 94, Issue 8, pp. 1100-4, (2010) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. OTX2 Antibody (C-term) (ABIN1881611 and ABIN2845106) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of OTX2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. OTX2 Antibody (C-term) (ABIN1881611 and ABIN2845106) western blot analysis in Y79 cell line lysates (35 µg/lane). This demonstrates the OTX2 antibody detected the OTX2 protein (arrow).