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OTX1/2 Recombinant Rabbit mAb

Catalog # AP100060

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, CHIP
Primary Accession	P32242
Other Accession	P32242
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	37327
Physical State	Liquid
Immunogen	A synthesized peptide derived from human OTX1
Epitope Specificity	20-70
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the paired homeobox family. Bicoid subfamily. Contains 1 homeobox DNA-binding domain.
DISEASE	Defects in OTX2 are the cause of microphthalmia syndromic type 5 (MCOPS5) [MIM:610125]. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues. Up to 80% of cases of microphthalia occur in association with syndromes that include non-ocular abnormalities. MCOPS5 patients manifest unilateral or bilateral microphthalmia/clinical anophthalmia and variable additional features including coloboma, microcornea, cataract, retinal dystrophy, hypoplasia or agenesis of the optic nerve, agenesis of the corpus callosum, developmental delay, joint laxity, hypotonia, and seizures.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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'.

Additional Information

Gene ID	5013
Other Names	CPHD6; MCOPS5; A730044F23Rik; jv; id:ibd2915; otx2; zOtx2; zgc:136535; zotx-2; OTX1_HUMAN; OTX1; Orthodenticle homolog 1; OTX2_HUMAN; Orthodenticle homolog 2; OTX1_MOUSE; Otx-1; OTX2_MOUSE; Otx-2; OTX2_DANRE; orthodenticle homeobox 1; orthodenticle (Drosophila) homolog 1; orthodenticle homolog 1 (Drosophila); Homeobox protein OTX1
Dilution	WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,IP=1:20-50,ChIP=1:20-50,IF=1:50-200

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	OTX1
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'.
Cellular Location	Nucleus.
Tissue Location	Expressed in brain. Detected in the anterior part of the neural fetal retina (at protein level)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.