Datasheet for ABIN1392214

anti-OTX2 antibody (AA 15-105) (AbBy Fluor® 488)

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Overview

Quantity:	100 µL
Target:	OTX2
Binding Specificity:	AA 15-105
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OTX2 antibody is conjugated to AbBy Fluor® 488
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human OTX2
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Sheep,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	OTX2
Alternative Name:	OTX2 (OTX2 Products)

Target Details

Background:	Synonyms: CPHD6, Homeobox protein OTX2, MCOPS 5, MCOPS5, MGC45000, Orthodenticle 2, Orthodenticle homeobox 2, Orthodenticle homolog 2 Drosophila, Orthodenticle homolog 2, Orthodenticle2, Otx 2, otx2, OTX2_HUMAN. Background: Transcription factors, OTX1 and OTX2, are two murine homologs of the Drosophila orthodenticle (OTD), show a limited amino acid sequence divergence. OTX1 and OTX2 play an important role during early and later events required for proper brain development in that they are involved in the processes of induction, specification and regionalization of the brain. OTX1 is involved in corticogenesis, sensory organ development and pituitary functions, while OTX2 is necessary earlier in development, for the correct anterior neural plate specification and organization of the primitive streak. OTX2 is also required in the early specification of the neuroectoderm, which is destined to become the fore-midbrain, and both OTX1 and OTX2 co-operate in patterning the developing brain through a dosage-dependent mechanism. A molecular mechanism depending on a precise threshold of OTX proteins is necessary for the correct positioning of the isthmic region and for anterior brain patterning. The genes which encode OTX1 and OTX2 map to human chromosomes 2p13 and 14q21-q22, respectively.
Pathways:	Dopaminergic Neurogenesis

Application Details

Application Notes:	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months