

Datasheet for ABIN7126753 **anti-OTX2 antibody**

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	OTX2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This OTX2 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Coating (Coat)

Product Details

Immunogen:	Recombinant human full-length OTX2 protein
Isotype:	IgG1
Specificity:	Transcription factors OTX1 and OTX2, 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 isthmus region and for anterior brain patterning. The genes which encode OTX1 and OTX2 map to

Product Details

human chromosomes 2p13 and 14q22.3, respectively.

Cross-Reactivity (Details): Human. Predicted to react in Chick, Mouse, Rat, Xenopus and Zebrafish.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: OTX2

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

Background: 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 / Orthodenticle homeobox 2 (Transcription Factor)
Cellular localisation: Nucleus.

Molecular Weight: 71.5kDa

Gene ID: 5015, 288655

UniProt: [P32243](#)

Pathways: [Dopaminergic Neurogenesis](#)

Application Details

Application Notes: Known_Application: ELISA (For coating, order antibody without BSA), Immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 mL of cell lysate)), Flow Cytometry (1-2 µg/million cells),
Optimal dilution for a specific application should be determined.
Positive_Control: HeLa cells. Human fetal gut, colon, liver or heart.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Prepared in 10 mM PBS, WITHOUT BSA and Azide.

Preservative: Azide free

Storage: -20 °C, -80 °C

Storage Comment: Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.

Handling

Expiry Date: 24 months