

Otx2 Antibody (R31757)

Catalog No.	Formulation	Size
R31757	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	5015
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Otx2 antibody is available for research use only.



Western blot testing of Otx2 antibody and COLO320 lysate. Predicted/observed size ~32KD

Description

Orthodenticle homeobox 2 is also known as CPHD6 or MCOPS5. The OTX2 gene encodes a member of the bicoid subfamily of homeodomain-containing transcription factors. Otx2 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). Otx2 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Otx2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Orthodenticle homeobox 2 (DYKDQTASWKLNFNADCLDYKDQTSSWKFQVL) was used as the immunogen for this Otx2 antibody (100% mouse homology).

Storage

After reconstitution, the Otx2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.