

OTX2 Polyclonal Antibody

Catalog number: 13497-1-AP

Size: 92 µg/150 µl

Source: Rabbit

Isotype: IgG

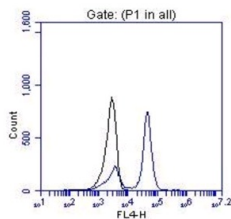
Synonyms:

OTX2; Homeobox protein

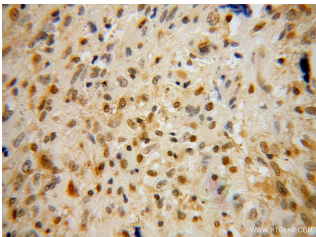
OTX2, MCOP55, orthodenticle

homeobox 2, Orthodenticle

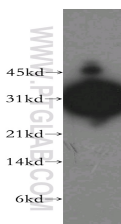
homolog 2, OTX2



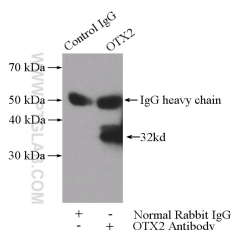
FC result of anti-OTX2 (13497-1-AP, 1:100) with hESC which spontaneous differentiation toward retinal lineage (RPE). (Black: control; Blue OTX2).



Immunohistochemical of paraffin-embedded human gliomas using 13497-1-AP(OTX2 antibody) at dilution of 1:100 (under 40x lens)



Y79 cells were subjected to SDS PAGE followed by western blot with 13497-1-AP(OTX2 antibody) at dilution of 1:500



IP Result of anti-OTX2

Background

The orthodenticle homeobox 2, encoded by OTX2 gene, is a key transcription factor in developmental processes. In particular, it is required for the early specification of the brain and the embryonic development of sensory organs, including the, pineal gland, pituitary gland, inner part of the ear, eyes, and optic nerve. In later stages, it is important for maintaining intact retina and brain function. In addition, it acts as a transcriptional repressor and a gatekeeper of myogenic and neuronal differentiation in medulloblastoma cells. OTX2 binds to the MyoD1 core enhancer through its homeobox domain and the remarkable repressor activity exhibited by the homeobox domain renders OTX2 transcriptionally repressive

Applications

Tested applications:	ELISA, WB, IHC, FC, IP
Cited applications:	ChIP, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated OTX2 MW:	297aa, 32 kDa
Observed OTX2 MW:	32kd
Positive WB detected in	Y79 cells
Positive IP detected in	Y79 cells
Positive IHC detected in	Human gliomas tissue
Positive FC detected in	HESC cells
Recommended dilution:	WB: 1:500-1:5000
	IP: 1:500-1:5000
	IHC: 1:20-1:200
	FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4323
GenBank accession number:	BC032579
Gene ID (NCBI):	5015
Full name:	Orthodenticle homeobox 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

(IP:13497-1-AP, 3ug;
Detection:13497-1-AP 1:1500)
with Y79 cells lysate 2400ug.