

For Research Use Only

OTX2 Polyclonal antibody, PBS Only

Catalog Number: 13497-1-PBS

Featured Product



Basic Information

Catalog Number:

13497-1-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4323

GenBank Accession Number:

BC032579

GeneID (NCBI):

5015

UNIPROT ID:

P32243

Full Name:

orthodenticle homeobox 2

Calculated MW:

297 aa, 32 kDa

Observed MW:

31-35 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF-P, FC (Intra), IP, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

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

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

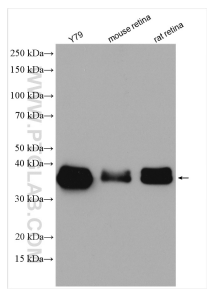
T: 4006900926

E: Proteintech-CN@ptglab.com

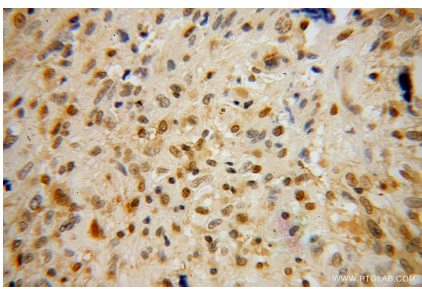
W: ptgcn.com

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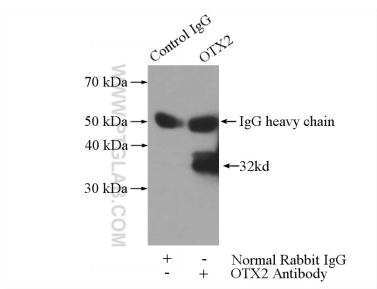
Selected Validation Data



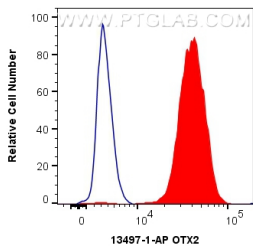
Various lysates were subjected to SDS PAGE followed by western blot with 13497-1-AP (OTX2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 13497-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human gliomas using 13497-1-AP (OTX2 antibody) at dilution of 1:100 (under 40x lens). This data was developed using the same antibody clone with 13497-1-PBS in a different storage buffer formulation.



IP result of anti-OTX2 (IP:13497-1-AP, 3ug; Detection:13497-1-AP 1:1500) with Y79 cells lysate 2400ug. This data was developed using the same antibody clone with 13497-1-PBS in a different storage buffer formulation.



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human OTX2 (13497-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 13497-1-PBS in a different storage buffer formulation.