

For Research Use Only

# OLIG2 Polyclonal antibody

Catalog Number: 25754-1-AP



## Basic Information

<b>Catalog Number:</b> 25754-1-AP	<b>GenBank Accession Number:</b> BC047511	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 750 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10215	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13516	
<b>Isotype:</b> IgG	<b>Full Name:</b> oligodendrocyte lineage transcription factor 2	
<b>Immunogen Catalog Number:</b> AG22642	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: rat brain tissue, C6 cells

IHC: human gliomas tissue, mouse cerebellum tissue, mouse brain tissue

## Background Information

The oligodendrocyte lineage-specific basic helix-loop-helix (OLIG) family of transcription factors include OLIG1-OLIG3, which differ in tissue expression. OLIG1 and OLIG2 are specifically expressed in nervous tissue as gene regulators of oligodendrogenesis. OLIG1 and OLIG2 interact with the Nkx-2.2 homeodomain protein, which is responsible for directing ventral neuronal patterning in response to graded Sonic hedgehog signaling in the embryonic neural tube. These interactions between OLIG proteins and Nkx-2.2 appear to promote the formation of alternate cell types by inhibiting V3 interneuron development. OLIG1 and OLIG2 are abundantly expressed in oligodendroglioma and nearly absent in astrocytomas. Therefore, OLIG proteins are candidates for molecular markers of human glial brain tumors, which are the most common primary malignancies of the human brain.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1%BSA**

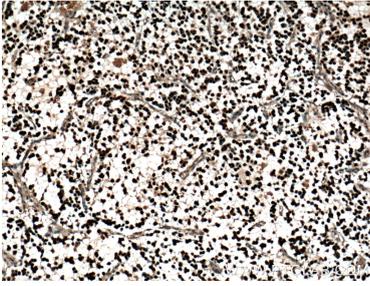
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

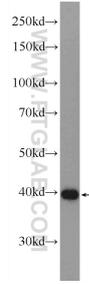
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25754-1-AP (OLIG2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



rat brain tissue were subjected to SDS PAGE followed by western blot with 25754-1-AP (OLIG2 Antibody) at dilution of 1:600 incubated at 4 degree celsius over night.