

For Research Use Only

# OLIG1 Polyclonal antibody, PBS Only

Catalog Number: 26763-1-PBS



## Basic Information

<b>Catalog Number:</b> 26763-1-PBS	<b>GenBank Accession Number:</b> BC026989	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 116448	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8TAK6	
<b>Isotype:</b> IgG	<b>Full Name:</b> oligodendrocyte transcription factor 1	
<b>Immunogen Catalog Number:</b> AG25128	<b>Calculated MW:</b> 28 kDa	
	<b>Observed MW:</b> 34 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, mouse

## Background Information

The oligodendrocyte lineage-specific basic helix-loop-helix (OLIG) family of transcription factors includes 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 -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:

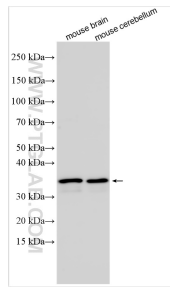
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26763-1-AP (OLIG1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26763-1-PBS in a different storage buffer formulation.