

## Anti-OLIG1 Antibody

Catalog Number: A06108

### About OLIG1

The oligodendrocyte transcription factors 1 and 2 (OLIG1 and OLIG2, respectively) make up part of basic helix-loop-helix (bHLH) family of transcription factors that are specifically expressed in zones of the neuroepithelium from which oligodendrocyte precursors emerge (1). Both OLIG1 and OLIG2 genes are downstream targets of Sonic hedgehog and are expressed exclusively in the central nervous system (2). OLIG1 is first expressed in the dorsal portion of the p3 progenitor domain of the ventral neural tube while OLIG2 is first observed in the ventral most p3 domain (2). OLIG1 has been shown to be a SMAD cofactor involved in cell motility induced by transforming growth factor-beta (TGF-beta) (3).

### Overview

Product Name	Anti-OLIG1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-OLIG1 Antibody (Catalog # A06108). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	OLIG1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	OLIG1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q8TAK6

### Technical Details

Immunogen	OLIG1 antibody was raised against an 18 amino acid peptide near the amino terminus of human OLIG1. The immunogen is located within amino acids 50 - 100 of OLIG1.
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	OLIG1 antibody is human specific. It is predicted to not cross-react with other members of the OLIG family of proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	OLIG1 antibody is affinity chromatography purified via peptide column.

#### Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

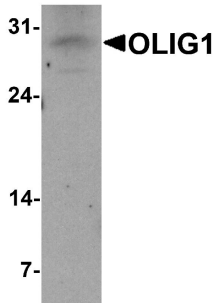
If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

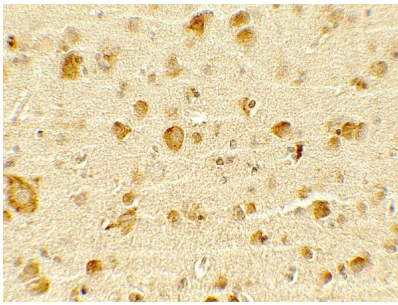
Boster Bio's internal QC testing used OLIG1 antibody can be used for detection of OLIG1 by Western blot at 1 - 2  $\mu$ g/mL. Antibody can also be used for Immunohistochemistry at 5  $\mu$ g/mL. For Immunofluorescence start at 20  $\mu$ g/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

For protocols, please visit <https://www.bosterbio.com/protocol-and-troubleshooting/>

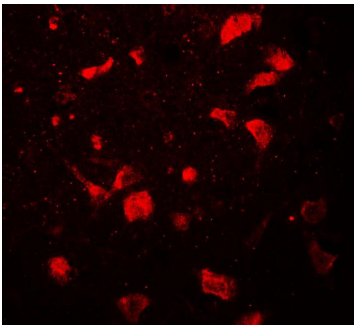
## Anti-OLIG1 Antibody (A06108) Images



Western blot analysis of OLIG1 in A549 cell lysate with OLIG1 antibody at 1  $\mu\text{g/ml}$ .



Immunohistochemistry of OLIG1 in human brain tissue with OLIG1 antibody at 5  $\mu\text{g/mL}$ .



Immunofluorescence of OLIG1 in human brain tissue with OLIG1 antibody at 20  $\mu\text{g/mL}$ .

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