

## Product datasheet for **TA349036**

### OLIG1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, IHC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	OLIG1 antibody was raised against an 18 amino acid peptide near the amino terminus of human OLIG1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	OLIG1 antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 30 kDa; Observed: 29 kDa
Gene Name:	oligodendrocyte transcription factor 1
Database Link:	<a href="#">NP_620450</a> <a href="#">Entrez Gene 116448 Human</a> <a href="#">Q8TAK6</a>
Background:	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).

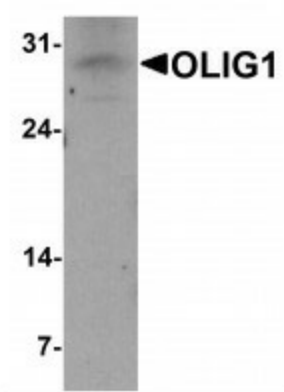


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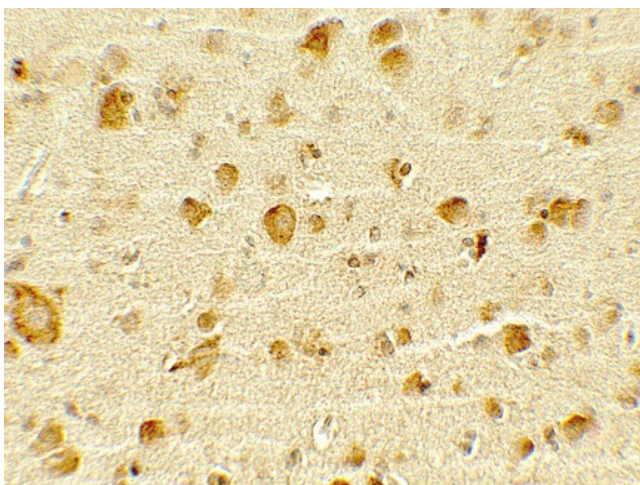
Synonyms: BHLHB6; BHLHE21

Protein Families: Druggable Genome

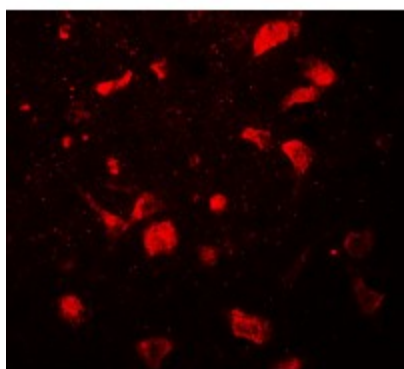
### Product images:



Western blot analysis of OLIG1 in A549 cell lysate with OLIG1 antibody at 1 ug/mL.



Immunohistochemistry of OLIG1 in human brain tissue with OLIG1 antibody at 5 ug/mL.



Immunofluorescence of OLIG1 in human brain tissue with OLIG1 antibody at 20 ug/mL.