

Product datasheet for **TA349037**

OLIG2 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, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | OLIG2 antibody was raised against a 15 amino acid peptide near the amino terminus of human OLIG2. |
| Formulation: | PBS containing 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| Purification: | OLIG2 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: 36 kDa; Observed: 37 kDa |
| Gene Name: | oligodendrocyte lineage transcription factor 2 |
| Database Link: | NP_005797 Entrez Gene 50913 Mouse Entrez Gene 304103 Rat Entrez Gene 10215 Human Q13516 |



[View online »](#)

Background:

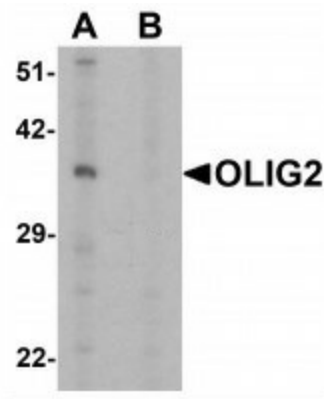
The oligodendrocyte transcription factors 1 and 2 (OLIG1 and OLIG2, respectively) make up part of basic helix-loop-helix (bHLH) family of transcription factors that are specifically expressed in zones of the neuroepithelium from which oligodendrocyte precursors emerge (1). Both OLIG1 and OLIG2 genes are downstream targets of Sonic hedgehog and are expressed exclusively in the central nervous system (2). OLIG2 is first observed in the ventral most p3 progenitor domain of the ventral neural tube while OLIG1 is first expressed in the dorsal portion of the p3 domain (2). Mice overexpressing OLIG2 exhibit impaired potassium channel expression in neural progenitors and proliferation of these cells similar to that seen in Down Syndrome, suggesting that OLIG2 may play a role in this pathology (3).

Synonyms:

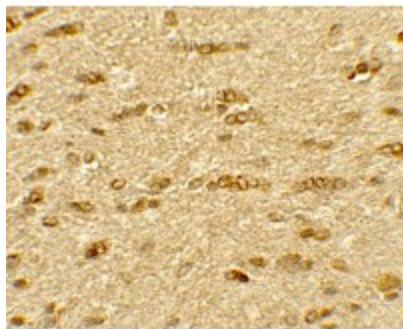
BHLHB1; bHLHe19; OLIGO2; PRKCBP2; RACK17

Protein Families:

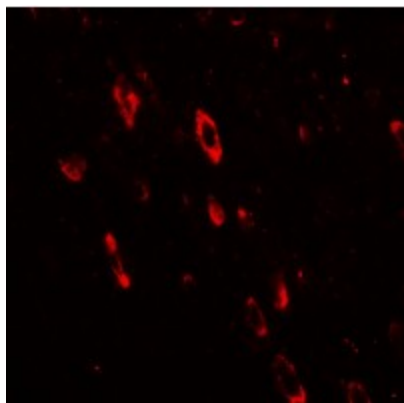
Druggable Genome, Transcription Factors

Product images:


Western blot analysis of OLIG2 in EL4 cell lysate with OLIG2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of OLIG2 in rat brain tissue with OLIG2 antibody at 5 ug/mL.



Immunofluorescence of OLIG2 in rat brain tissue with OLIG2 antibody at 20 ug/mL.