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# Anti-Oligo2 Antibody

Catalog # AP61126

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q13516 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 32385 |

## Additional Information

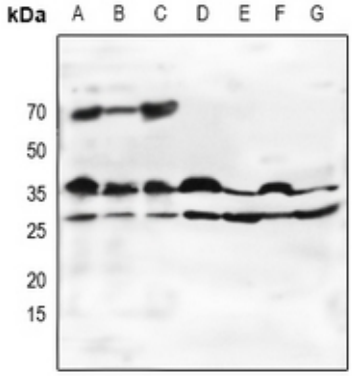
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| **Gene ID** | 10215 |
| **Other Names** | BHLHB1; BHLHE19; PRKCBP2; RACK17; Oligodendrocyte transcription factor 2; Oligo2; Class B basic helix-loop-helix protein 1; bHLHb1; Class E basic helix-loop-helix protein 19; bHLHe19; Protein kinase C-binding protein 2; Protein kinase C-binding protein RACK17 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Oligo2. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | OLIG2 |
| **Synonyms** | BHLHB1, BHLHE19, PRKCBP2, RACK17 |
| **Function** | Required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Works in coordination with ZNF488 to promote oligodendrocyte differentiation. Orchestrates progenitor cell fates during cortical gliogenesis and gliomagenesis. In cooperation with OLIG2, activates oligodendrocyte precursor cells (OPCs) formation while repressing the generation of olfactory bulb interneuron intermediate progenitors (OBIN) generation through transcriptional regulation of GSX2. Mechanistically, binds and silences multiple conserved enhancer elements of GSX2. Cooperates with OLIG1 to establish the pMN domain of the embryonic neural tube. Antagonist of V2 interneuron and of NKX2-2- induced V3 interneuron development. |

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| **Cellular Location** | Nucleus {ECO:0000255\|PROSITE-ProRule:PRU00981}. Cytoplasm. Note=The NLS contained in the bHLH domain could be masked in the native form and translocation to the nucleus could be mediated by interaction either with class E bHLH partner protein or with NKX2-2. |
| **Tissue Location** | Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas highly variable |

## Images




Western blot analysis of Oligo2 expression in HEK293T (A), Hela (B), LO2 (C), mouse brain (D), mouse muscle (E), rat brain (F), rat muscle (G) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 30; 40 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.