

Rabbit OLIG2 Polyclonal Antibody | anti-OLIG2 antibody

OLIG2 Antibody

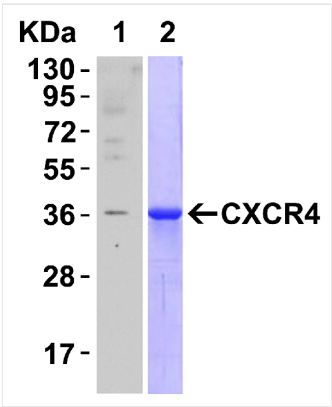
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40492	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

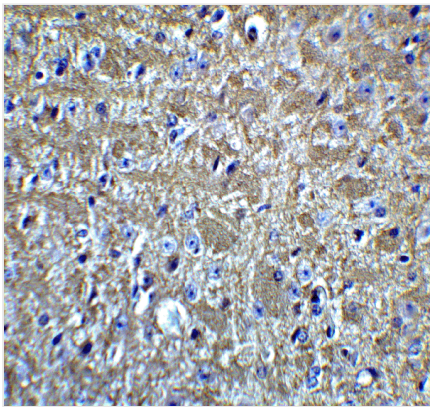
OLIG2; Polyclonal Antibody; OLIG2 Antibody; BHLHB1; OLIGO2; RACK17; PRKCBP2; bHLHe19; BHLHE19; Oligodendrocyte transcription factor 2; Class B basic helix-loop-helix protein 1; Oligo2; oligodendrocyte lineage transcription factor 2; anti-OLIG2 antibody

PRODUCT SPECIFICATIONS

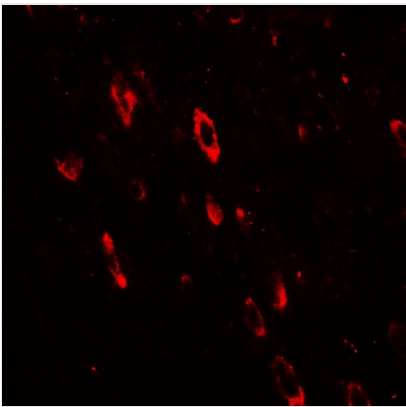
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	OLIG2 antibody is human, mouse and rat reactive. It is predicted to not cross-react with other members of the OLIG family of proteins. At least three isoforms of OLIG2 are known to exist; this antibody will detect all three isoforms.
Purity/Purification	OLIG2 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	323
Applicable Applications for anti-OLIG2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	OLIG2 antibody was raised against a 15 amino acid peptide near the amino terminus of human OLIG2.
Buffer	OLIG2 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	OLIG2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.



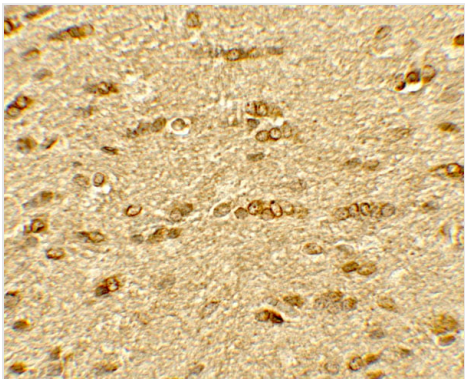
IF (Immunofluorescence)
Immunofluorescence of OLIG2 in mouse brain tissue with OLIG2 Antibody at 20 μ g/mL. Green: OLIG2 antibody (7743) Red: Phylloidin staining Blue: DAPI staining



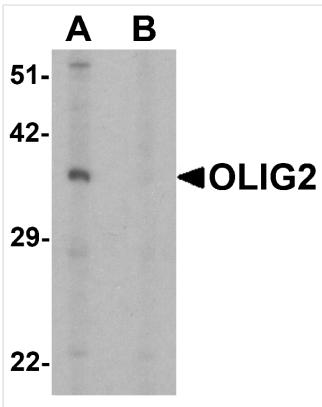
IHC (Immunohistochemistry)
Immunohistochemistry of OLIG2 in mouse brain tissue with OLIG2 Antibody at 5 μ g/mL.



IF (Immunofluorescence)
Immunofluorescence of OLIG2 in rat brain tissue with OLIG2 antibody at 20 μ g/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of OLIG2 in rat brain tissue with OLIG2 antibody at 5 μ g/mL.



WB (Western Blot)
Western blot analysis of OLIG2 in EL4 cell lysate with OLIG2 antibody at 1 μ g/ml in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-OLIG2 antibody	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).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17978475
NCBI GeneID	10215
NCBI Accession #	NP_005797
NCBI GenBank Nucleotide #	NM_005806.3
UniProt Accession #	Q13516; Q05BP9; Q49AL3; Q86X04; Q9NZ14; B3KRF3
Molecular Weight	Predicted: 36 kDa Observed: 37 kDa
NCBI Official Full Name	oligodendrocyte transcription factor 2
NCBI Official Synonym Full Names	oligodendrocyte lineage transcription factor 2
NCBI Official Symbol	OLIG2
NCBI Official Synonym Symbols	BHLHB1; OLIGO2; RACK17; PRKCBP2; bHLHe19
NCBI Protein Information	oligodendrocyte transcription factor 2; protein kinase C-binding protein 2; class B basic helix-loop-helix protein 1; class E basic helix-loop-helix protein 19; human protein kinase C-binding protein RACK17; basic domain, helix-loop-helix protein, class B, 1; oligodendrocyte-specific bHLH transcription factor 2
UniProt Protein Name	Oligodendrocyte transcription factor 2
UniProt Gene Name	OLIG2
UniProt Synonym Gene Names	BHLHB1; BHLHE19; PRKCBP2; RACK17; Oligo2; bHLHb1; bHLHe19
UniProt Entry Name	OLIG2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.