Rabbit OLIG1 Polyclonal Antibody | anti-OLIG1 antibody

OLIG1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40800	**Rabbit**	**Human; Predicted (based on immunogen sequence: Rat (83%), Mouse (78%)**	**Immunofluorescence, Immunohistochemistry, Western Blot, ELISA**

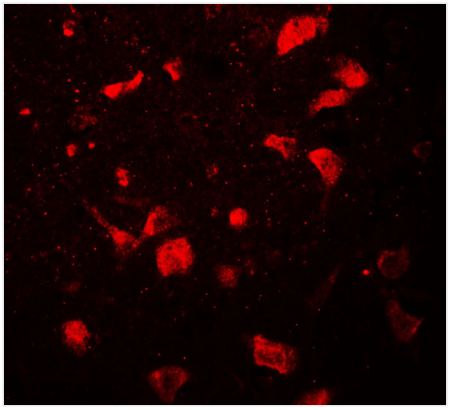
PRODUCT SYNONYMS

OLIG1; Polyclonal Antibody; OLIG1 Antibody; BHLHB6; BHLHE21; Oligodendrocyte transcription factor 1; Class B basic helix-loop-helix protein 6; Oligo1; oligodendrocyte transcription factor 1; anti-OLIG1 antibody

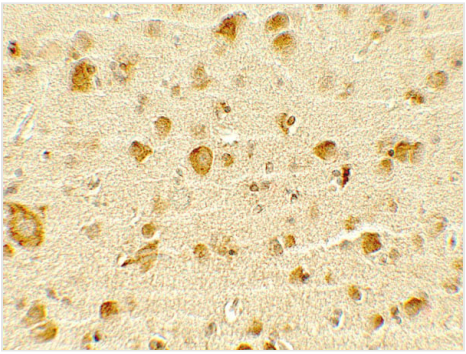
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human; Predicted (based on immunogen sequence: Rat (83%), Mouse (78%)
Clonality	Polyclonal
Isotype	IgG
Specificity	OLIG1 antibody is human specific. It is predicted to not cross-react with other members of the OLIG family of proteins.
Purity/Purification	OLIG1 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Applicable Applications for anti-OLIG1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
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.
Buffer	OLIG1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	OLIG1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

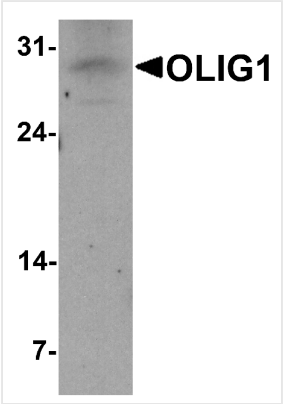
IMAGES



IF (Immunofluorescence)
Immunofluorescence of OLIG1 in human brain tissue with OLIG1 antibody at 20 μg/mL.



IHC (Immunohiostchemistry)
Immunohistochemistry of OLIG1 in human brain tissue with OLIG1 antibody at 5 μg/mL.



WB (Western Blot)
Western blot analysis of OLIG1 in A549 cell lysate with OLIG1 antibody at 1 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-OLIG1 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). 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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	237757328
NCBI GeneID	116448
NCBI Accession #	NP_620450
NCBI GenBank Nucleotide #	NM_138983.2
UniProt Accession #	Q8TAK6; Q7RTS0
Molecular Weight	Predicted: 30 kDa Observed: 29 kDa
NCBI Official Full Name	oligodendrocyte transcription factor 1

NCBI Official Synonym Full Names	oligodendrocyte transcription factor 1
NCBI Official Symbol	OLIG1
NCBI Official Synonym Symbols	BHLHB6; BHLHE21
NCBI Protein Information	oligodendrocyte transcription factor 1; oligo1; class B basic helix-loop-helix protein 6; class E basic helix-loop-helix protein 21; oligodendrocyte lineage transcription factor 1; basic domain, helix-loop-helix protein, class B, 6; oligodendrocyte-specific bHLH transcription factor 1
UniProt Protein Name	Oligodendrocyte transcription factor 1
UniProt Gene Name	**OLIG1**
UniProt Synonym Gene Names	BHLHB6; BHLHE21; Oligo1; bHLHb6; bHLHe21
UniProt Entry Name	OLIG1_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.

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Online datasheet: https://www.aaabiotech.com/polyclonal/olig1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/40800