OLIG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Olig1, Polyclonal Antibody
Full Product Name	Olig1 (Oligodendrocyte Transcription Factor 1, Oligo1, Oligodendrocyte-specific bHLH Transcription Factor 1, Olig1) (Biotin)
Product Gene Name	anti-Olig1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes mouse Olig1. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	27
Chromosome Location	Chromosome: 16; NC_000082.6 (91269769..91271939). Location: 16 C3.3; 16
3D Structure	ModBase 3D Structure for Q9JKN5
Immunogen	KLH conjugated synthetic peptide corresponding to aa161-184 at the Central region of Mouse Olig1. Species sequence homology: rat
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-Olig1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-Olig1 antibody	Western Blot (WB)
Application Notes for anti-Olig1 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-Olig1 antibody	MBS6457825 is an antibody targeting Olig1. Also known as Olig1 (Oligodendrocyte Transcription Factor 1, Oligo1, Oligodendrocyte-specific bHLH Transcription Factor 1, Olig1) (Biotin). Reactive in Mouse. Host: Rabbit.
Product References and Citations for anti-Olig1 antibody	Takebayashi H., et al. Mech. Dev. 99:143-148(2000). Zhou Q., et al. Neuron 25:331-343(2000). Lu Q.R., et al. Neuron 25:317-329(2000). Lu Q.R., et al. Cell 109:75-86(2002).
Other Notes	Small volumes of anti-Olig1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Olig1. It may not necessarily be applicable to this product.

NCBI GI #	59858559
NCBI GeneID	50914
NCBI Accession #	NP_058664.2
UniProt Primary Accession #	Q9JKN5
UniProt Secondary Accession #	Q9WUQ3
UniProt Related Accession #	Q9JKN5
GenBank Nucleotide #	NM_016968.4
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	Olg-1; Bhlhb6; Oligo1; bHLHe21; AI836478; AW494459
UniProt Protein Name	Oligodendrocyte transcription factor 1
UniProt Synonym Protein Names	Oligodendrocyte-specific bHLH transcription factor 1
Protein Family	Oligodendrocyte transcription factor
UniProt Gene Name	Olig1
UniProt Synonym Gene Names	Oligo1
UniProt Entry Name	OLIG1_MOUSE
NCBI Protein Information	oligodendrocyte transcription factor 1; oligodendrocyte-specific bHLH transcription factor 1
UniProt Comments for Olig1	Function: Promotes formation and maturation of oligodendrocytes, especially within the brain. Cooperates with OLIG2 to establish the pMN domain of the embryonic neural tube. Ref.5 Subcellular location: Nucleus By similarity. Tissue specificity: Expressed specifically in brain. Ref.1 Developmental stage: Expressed in the ventral spinal cord as early as 9.5 dpc. Expression declines to undetectable levels by 10.5 dpc and reappears in a narrow zone within the ventral neuroepithelium of the spinal cord. In the 14.5 dpc spinal cord, expressed in the oligodendrocyte progenitors of the ventral ventricular zone, but not dorsal root ganglia Schwann cells. Also expressed scattered in the mantle zone, likely corresponding to oligodendrocyte progenitors migrating out from their site of origin. By 15.5 dpc, dispersed throughout the gray matter, with little or no residual expression in the ventricular zone. In the postnatal brain, present preferentially in the white matter, such as corpus callosum and cerebellar medulla. Expressed in the olfactory epithelium from 11.5dpc onward. Ref.3 Induction: By SHH. Ref.4 Sequence similarities: Contains 1 bHLH (basic helix-loop-helix) domain. Sequence caution: The sequence BAB18906.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on Olig1	**1.** Olig1 is a Smad cofactor involved in TGF-beta-induced cell motility
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