OLIG2 mouse mAb

Catalog No	YP-mAb-02274
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	OLIG2 BHLHB1 BHLHE19 PRKCBP2 RACK17
Protein Name	OLIG2
Immunogen	Synthesized peptide derived from human OLIG2
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat OLIG2
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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)
Observed Band	
Cell Pathway	Nucleus . Cytoplasm . 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 Specificity	Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas highly variable.
Function	disease:A chromosomal aberration involving OLIG2 may be a cause of a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(14;21)(q11.2;q22) with TCRA.,domain:The bHLH is essential for interaction with NKX2-2.,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. 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.,induction:By SHH. Also induced by NKX6-1 in the developing spinal cord, but not in the rostral hindbrain.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subcellular location: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 par
Background	This gene encodes a basic helix-loop-helix transcription factor which is expressed in oligodendroglial tumors of the brain. The protein is an essential regulator of ventral neuroectodermal progenitor cell fate. The gene is involved in a chromosomal translocation t(14;21)(q11.2;q22) associated with T-cell acute lymphoblastic leukemia. Its chromosomal location is within a region of chromosome 21 which has been suggested to play a role in learning deficits associated with Down syndrome. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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