

OLIG2 rabbit pAb

Catalog No :	YT7967
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	OLIG2
Gene Name :	OLIG2 BHLHB1 BHLHE19 PRKCBP2 RACK17
Protein Name :	OLIG2
Human Gene Id :	10215
Human Swiss Prot No :	Q13516
Mouse Gene Id :	50913
Mouse Swiss Prot No :	Q9EQW6
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 :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 36kD

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],

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

Subcellular Location : 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. .

Expression : Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas highly variable.

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