

For Research Use Only

OLIG2 Monoclonal antibody

Catalog Number: 66513-1-Ig **2 Publications**



Basic Information

Catalog Number: 66513-1-Ig	GenBank Accession Number: BC047511	Purification Method: Protein A purification
Size: 150UL, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10215	CloneNo.: 1E8C5
Source: Mouse	Full Name: oligodendrocyte lineage transcription factor 2	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:350-1:1400
Isotype: IgG2a	Calculated MW: 32 kDa	
Immunogen Catalog Number: AG18838	Observed MW: 35-39 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB: rat brain tissue, human brain tissue, human cerebellum tissue IHC: human brain tissue, human gliomas tissue
Cited Applications: IF	
Species Specificity: Human, mouse, rat	
Cited Species: mouse, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

OLIG2, also named as BHLHB1, BHLHE19, PRKCBP2 and RACK17, is 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, OLIG2 establish the pMN domain of the embryonic neural tube. Antagonist of V2 interneuron and of NIKX2-2-induced V3 interneuron development. OLIG2 is widely expressed in subsets of glia cells and progenitors, and it is strongly induced at different sites by both acute and chronic injury, albeit with different mechanisms. OLIG2 acts as a repressor of neurogenesis in cells reacting to brain injury. It may represent an effective approach towards evoking neuronal repair from parenchymal precursors. (PMID:19390819)

Notable Publications

Author	Pubmed ID	Journal	Application
Kang Guo	33692998	Front Cell Dev Biol	IF
Meng-Ru Wang	31404585	Brain Res Bull	IF

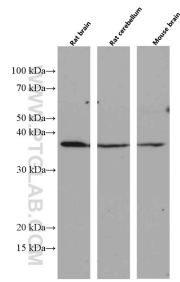
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

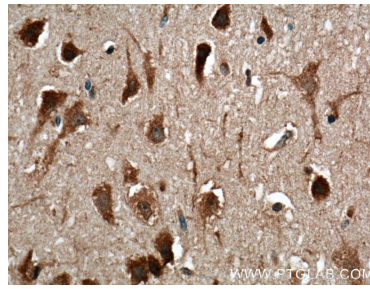
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various tissues were subjected to SDS PAGE followed by western blot with 66513-1-Ig (OLIG2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66513-1-Ig (OLIG2 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).