ARG52380
anti-Olig 2 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Olig 2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Olig 2
Species	Mouse
Immunogen	Recombinant mouse Olig2
Conjugation	Un-conjugated
Alternate Names	bHLHb1; Class E basic helix-loop-helix protein 19; Class B basic helix-loop-helix protein 1; Oligo2; bHLHe19; Oligodendrocyte transcription factor 2; BHLHB1; Protein kinase C-binding protein 2; OLIGO2; Protein kinase C-binding protein RACK17; PRKCBP2; RACK17

Application Instructions

Application table

Application	Dilution
ICC/IF	1:500 - 1:1000
IHC-Fr	1:500 - 1:1000
IP	1:500 - 1:1000
WB	1:1000 - 1:3000

Application Note: Specific for the ~32 kDa Olig2 protein in Western blots. The antibody also works well for immunohistochemistry and immunocytochemistry.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 32 kDa

Properties

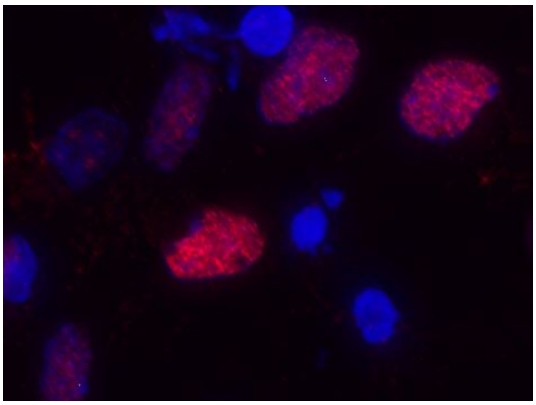
Form	Liquid
Purification	Protein A purified
Buffer	100 mM Glycine (pH 8.0), 200 mM Tris
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

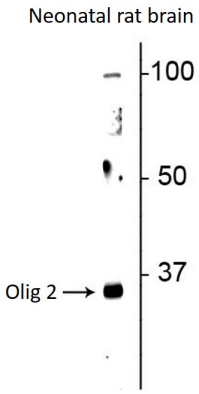
Database links	GeneID: 10215 Human GeneID: 50913 Mouse Swiss-port # Q13516 Human Swiss-port # Q9EQW6 Mouse
Gene Symbol	OLIG2
Gene Full Name	oligodendrocyte transcription factor 2
Background	Olig2 is a transcription factor which is required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Expressed in the ventral spinal cord as early as 9.5 dpc and scattered in the mantle zone, likely corresponding to oligodendrocyte progenitors migrating out from their site of origin. From 10.5 through 14.5 dpc, Olig2 is expressed in numerous cells in the ventricular and subventricular zones of the lateral and medial ganglionic eminences, suggesting that expression might not be limited to the oligodendrocytic lineage. Olig2 has further been shown to be critical in the proliferation of malignant glioma in brain tumors (Ligon et al., 2007).
Research Area	Developmental Biology antibody; Gene Regulation antibody; Neuroscience antibody
Calculated Mw	32 kDa

Images



ARG52380 anti-Olig 2 antibody ICC/IF image

Immunofluorescence: Primary rat cortical neuroepithelial cells stained with ARG52380 anti-Olig 2 antibody (red). The cells were treated with basic FGF for 30 hours prior to staining (this induces Olig 2 expression in these primary cells).



ARG52380 anti-Olig 2 antibody WB image

Western blot: Neonatal rat brain lysate stained with ARG52380 anti-Olig 2 antibody.