ARG52381
anti-Olig 2 phospho (Ser10 / Ser13 / Ser14) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Olig 2 phospho (Ser10 / Ser13 / Ser14)
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Gpig, NHuPrm, Zfsh
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Olig 2
Species	Human
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser10,13,14 conjugated to KLH
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
WB	1:1000

Application Note: Specific for the ~32k Olig2 phosphorylated at Ser10, Ser13, and Ser14.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

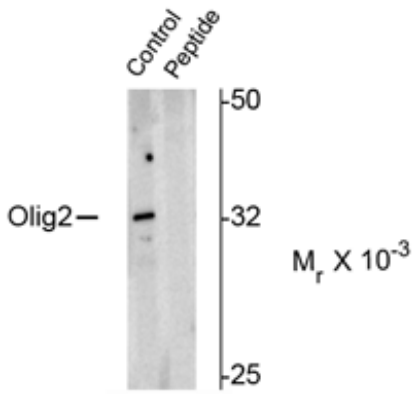
Properties

Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
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. 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

Gene Symbol	OLIG2
Gene Full Name	oligodendrocyte lineage transcription factor 2
Background	Olig2 is a well conserved bHLH transcription factor that shows both anti-neural functions and pro-neural functions at different stages in the formation of the oligodendrocyte lineage (Sun et al., 2011). Olig2 is expressed in 100% of the human diffuse gliomas irrespective of grade and required for intracranial tumor formation in a genetically relevant model of malignant glioma (Ligon et al., 2004; Ligon et al., 2007). A developmentally regulated triple serine motif at positions 10, 13 and 14 in the amino terminus is well conserved across species ranging from humans to zebrafish and is essential for Olig2 proliferative function in both normal and malignant neural progenitors (Sun et al., 2011). All three serine residues must be mutated to achieve a strong loss-of-function or gain-of-function phenotype, suggesting that the phosphorylation state of Olig2 represents a significant conformational change in the amino terminus (Sun et al., 2011).
Research Area	Developmental Biology antibody; Gene Regulation antibody; Neuroscience antibody
Calculated Mw	32 kDa

Images



ARG52381 anti-Olig 2 phospho (Ser10 / Ser13 / Ser14) antibody WB image

Western blot: Rat neonatal brain lysate showing specific immunolabeling of the ~ 32k form of the Olig2 protein phosphorylated at Ser 10,13,14 stained with ARG52381 anti-Olig 2 phospho (Ser10 / Ser13 / Ser14) antibody.
Immunolabeling is blocked by the phospho-peptide used as antigen (peptide).
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