OLIG1 Antibody FITC Conjugated

Catalog No: #C07553F

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Description

Product Name	OLIG1 Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from human OLIG1
Conjugates	FITC
Target Name	OLIG1
Other Names	Oligo 1; Oligo1; Oligodendrocyte lineage transcription factor 1; Oligodendrocyte specic bHLH transcription factor 1; Oligodendrocyte transcription factor 1. Basic domain helix loop helix protein class B 6; Basic domain helix loop helix protein class B6; BHLH B6; BHLHB 6; BHLHB6; bHLHe21; Class B bas
Accession No.	NCBI Gene ID116448
Uniprot	Q8TAK6
GeneID	116448;
Excitation Emission	494nm 518nm
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

IF=1:50-200

Background

The oligodendrocyte lineage-specific basic helix-loop-helix (OLIG) family of transcription factors include OLIG1-OLIG3, which differ in tissue expression. OLIG1 and OLIG2 are specifically expressed in nervous tissue as gene regulators of oligodendrogenesis. OLIG2 is more widely expressed in embryonic brain than OLIG1, while OLIG3 is primarily expressed in non-neural tissues. OLIG1 and OLIG2 interact with the Nkx-2.2 homeodomain protein, which is responsible for directing ventral neuronal patterning in response to graded Sonic hedgehog signaling in the embryonic neural tube. These interactions between OLIG proteins and Nkx-2.2 appear to promote the formation of alternate cell types by inhibiting V3 interneuron development. OLIG1 and OLIG2 are abundantly expressed in oligodendroglioma and nearly absent in astrocytomas. Therefore, OLIG proteins are candidates for molecular markers of human glial brain tumors, which are the most common primary malignancies of the human brain.

Note: This product is for in vitro research use only