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Datasheet for ABIN1386861
anti-OLIG1 antibody (AA 121-220)

Overview

Quantity:	100 µL
Target:	OLIG1
Binding Specificity:	AA 121-220
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OLIG1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human OLIG1
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Pig
Purification:	Purified by Protein A.

Target Details

Target:	OLIG1
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Target Details

Alternative Name: [OLIG1 \(OLIG1 Products\)](#)

Background: Synonyms: Oligo 1, Oligo1, Oligodendrocyte lineage transcription factor 1, Oligodendrocyte specific 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 basic helix-loop-helix protein 6, Class E basic helix-loop-helix protein 21, Olig 1, Olig1, OLIG1_HUMAN.

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.

Gene ID: 116448

UniProt: [Q8TAK6](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months