

Anti-Olig1 Antibody
Catalog # ABO11523**Specification**

Anti-Olig1 Antibody - Product Information

Application	WB
Primary Accession	Q8TAK6
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Oligodendrocyte transcription factor 1(OLIG1) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Olig1 Antibody - Additional Information

Gene ID 116448

Other Names

Oligodendrocyte transcription factor 1, Oligo1, Class B basic helix-loop-helix protein 6, bHLHb6, Class E basic helix-loop-helix protein 21, bHLHe21, OLIG1, BHLHB6, BHLHE21

Calculated MW

27905 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Nucleus .

Tissue Specificity

Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas is highly variable. .

Protein Name

Oligodendrocyte transcription factor 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Olig1(94-109aa ARPDAAKEEQQLRRK), different from the related mouse and rat sequences by four amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 bHLH (basic helix-loop-helix) domain.

Anti-Olig1 Antibody - Protein Information

Name OLIG1

Synonyms BHLHB6, BHLHE21

Function

Promotes formation and maturation of oligodendrocytes, especially within the brain. Cooperates with OLIG2 to establish the pMN domain of the embryonic neural tube (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

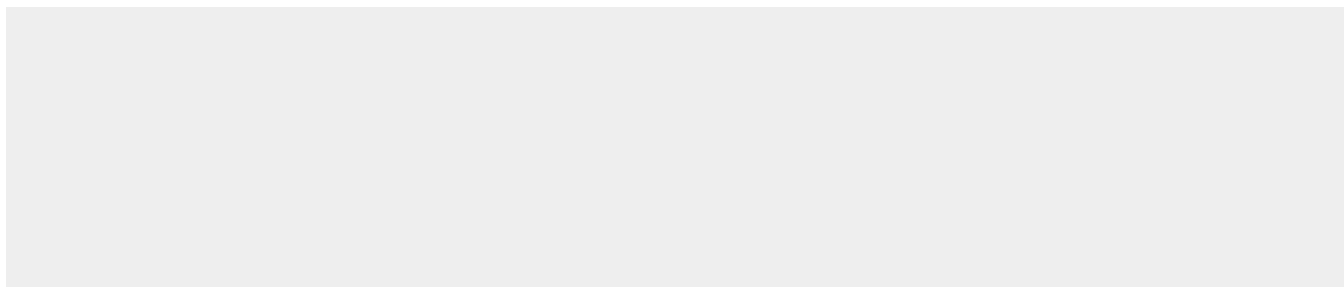
Tissue Location

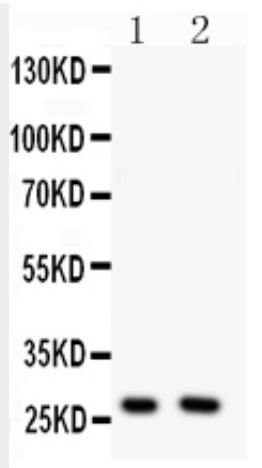
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Anti-Olig1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Olig1 Antibody - Images



Anti- OLIG1 antibody, ABO11523, Western blotting
All lanes: Anti OLIG1 (ABO11523) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: HELA Whole Cell Lysate at 40ug
Predicted bind size: 28KD
Observed bind size: 28KD

Anti-Olig1 Antibody - Background

Oligodendrocyte transcription factor 1 (OLIG1), also known as class B basic helix-loop-helix protein 6 (BHLHB6) is a protein that in humans is encoded by the OLIG1 gene. This gene is mapped to 21q22.11. This gene is a member of the oligodendrocyte lineage gene family which encodes basic helix-loop-helix transcription factors. Studies in mice show that it is coexpressed with Olig2 in neural progenitors, and has a role in the development and maturation of oligodendrocytes. OLIG1 gene promotes formation and maturation of oligodendrocytes, especially within the brain. It cooperates with OLIG2 to establish the pMN domain of the embryonic neural tube.