For Research Use Only

OLIG2 Polyclonal antibody

Catalog Number: 25754-1-AP



Purification Method:

WB 1:500-1:1000 IHC 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

Basic Information

Catalog Number: GenBank Accession Number: 25754-1-AP BC047511

Size: GeneID (NCBI): 10215

Source: UNIPROT ID: Rabbit Q13516

Rabbit Q13516
Isotype: Full Name:

gG oligodendrocyte lineage transcription

Immunogen Catalog Number: factor 2

AG22642 Calculated MW:

32 kDa Observed MW: 40 kDa

Applications

Tested Applications: IHC, WB, ELISA Species Specificity: human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: rat brain tissue, C6 cells

IHC: human gliomas tissue, mouse cerebellum tissue, mouse brain tissue

Background Information

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. 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.

Storage

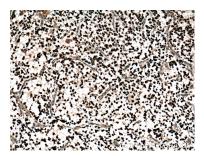
Storage:

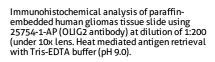
Store at -20°C. Stable for one year after shipment. Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data







rat brain tissue were subjected to SDS PAGE followed by western blot with 25754-1-AP (OLIG2 Antibody) at dilution of 1:600 incubated at 4 degree celsius over night.