

Datasheet for ABIN6939031
anti-OLIG2 antibody (AA 1-141)

3 Images

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Overview

Quantity:	100 µg
Target:	OLIG2
Binding Specificity:	AA 1-141
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This OLIG2 antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant fragment of human OLIG2 protein (around aa 1-141) (exact sequence is proprietary)
Clone:	OLIG2-2400
Isotype:	IgG1
Specificity:	<p>Olig2, a basic helix-loop-helix transcription factor, is involved in oligodendroglial specification. Olig2 expression has been reported in most glial tumors, such as oligodendrogliomas and astrocytomas. Although more than half of glioblastomas are positive for Olig2, expression is very weak in terms of both percentage of labeled cells and intensity. No Olig2 expression has been found in the non-glial tumors including neuro-epithelial tumors, ependymomas, subependymomas, medulloblastomas, and non-neuroepithelial tumors, such as CNS lymphomas, meningiomas, schwannomas, atypical teratoid / rhabdoid tumor, and haemangioblastomas.</p>

Product Details

Compared to the strong staining seen in glioma samples, a weak expression is observed in non-tumoral brain tissue (gliosis).

Cross-Reactivity (Details): Human,

Purification: 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target: OLIG2

Alternative Name: OLIG2 ([OLIG2 Products](#))

Background: Basic helix loop helix protein class B1 (bHLHB1), basic helix-loop-helix protein 19 (bHLHe19), OLIG2, Oligodendrocyte lineage transcription factor 2, Oligodendrocyte specific bHLH transcription factor 2, Oligodendrocyte transcription factor 2, Protein kinase C-binding protein 2 (PRKCBP2), RACK17, OLIG2 (Marker of Glial Brain Tumors)
Cellular localisation: Nuclear

Molecular Weight: 30-40kDa

Gene ID: 10215, 176977

UniProt: [Q13516](#)

Application Details

Application Notes: Positive Control: THP-1 cells. Astrocytoma.
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.

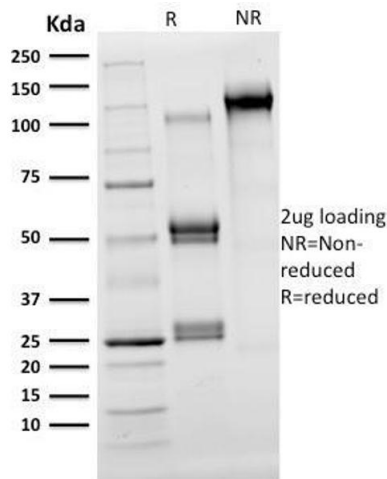
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

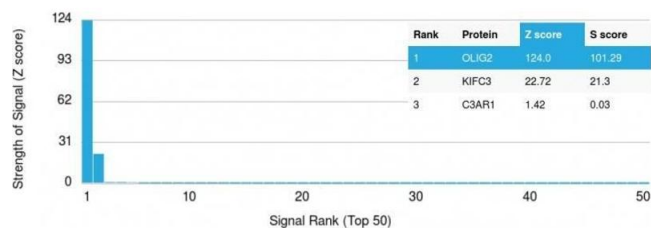
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



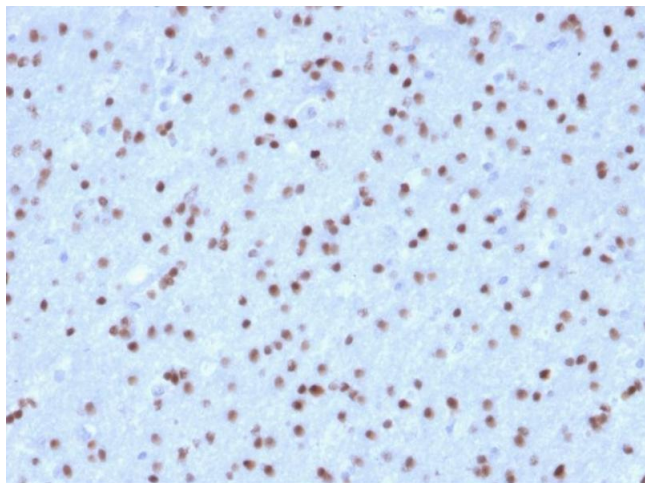
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified OLIG2 Mouse Monoclonal Antibody (OLIG2/2400). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing >19,000 full-length human proteins using OLIG2 Mouse Monoclonal Antibody (OLIG2/2400) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to



protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.

Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Cerebellum stained with OLIG2 Mouse Monoclonal Antibody (OLIG2/2400).