

Product datasheet

Anti-Olig2 antibody [OLIG2/2400] - BSA and Azide free ab237816

[2 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-Olig2 antibody [OLIG2/2400] - BSA and Azide free |
| Description | Mouse monoclonal [OLIG2/2400] to Olig2 - BSA and Azide free |
| Host species | Mouse |
| Tested applications | Suitable for: Protein Array, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Recombinant fragment within Human Olig2 aa 1-141. The exact sequence is proprietary. Database link: Q13516 |
| Positive control | IHC-P: Human cerebellum tissue. |
| General notes | <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A/G purified |
| Purification notes | Purified from bioreactor concentrate by Protein A/G. |
| Clonality | Monoclonal |
| Clone number | OLIG2/2400 |
| Isotype | IgG1 |
| Light chain type | kappa |

Applications

Our [Abpromise guarantee](#) covers the use of **ab237816** in the following tested applications.

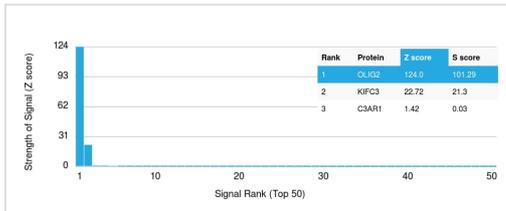
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---------------|-----------|--|
| Protein Array | | Use at an assay dependent concentration. |
| IHC-P | | Use a concentration of 1 - 2 µg/ml. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes. Incubate with primary antibody for 30 minutes at RT. |

Target

| | |
|-------------------------------|--|
| Function | Required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain. Cooperates with OLIG1 to establish the pMN domain of the embryonic neural tube. Antagonist of V2 interneuron and of NKX2-2-induced V3 interneuron development. |
| Tissue specificity | Expressed in the brain, in oligodendrocytes. Strongly expressed in oligodendrogliomas, while expression is weak to moderate in astrocytomas. Expression in glioblastomas highly variable. |
| Involvement in disease | Note=A chromosomal aberration involving OLIG2 may be a cause of a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(14;21)(q11.2;q22) with TCRA. |
| Sequence similarities | Contains 1 basic helix-loop-helix (bHLH) domain. |
| Domain | The bHLH is essential for interaction with NKX2-2. |
| Cellular localization | Nucleus. Cytoplasm. The NLS contained in the bHLH domain could be masked in the native form and translocation to the nucleus could be mediated by interaction either with class E bHLH partner protein or with NKX2-2. |

Images



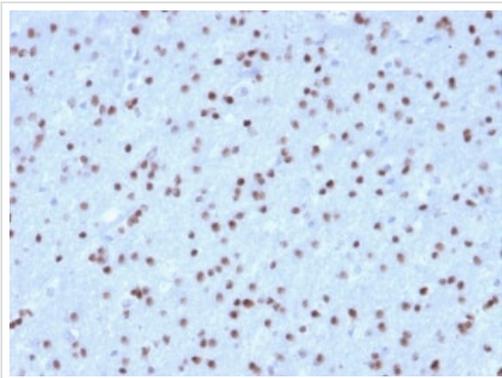
Protein Array - Anti-Olig2 antibody [OLIG2/2400] - BSA and Azide free (ab237816)

This data was produced with [ab236540](#), the same antibody in a different formulation with BSA and Azide.

[ab236540](#) was tested in protein array against over 19000 different full-length human proteins.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (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 MAb to its intended target.

A MAb is specific to its intended target if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Olig2 antibody [OLIG2/2400] - BSA and Azide free (ab237816)

Formalin-fixed, paraffin-embedded human cerebellum tissue stained for Olig2 with [ab237816](#) at 2 µg/ml in immunohistochemical analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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