


Product datasheet

Anti-Olig2 antibody ab254043

2 Images

Overview

Product name	Anti-Olig2 antibody
Description	Rabbit polyclonal to Olig2
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Rat Predicted to work with: Mouse, Human 
Immunogen	Recombinant fragment within Mouse Olig2. The exact sequence is proprietary. Database link: Q9EQW6
Positive control	WB: Neonatal rat brain lysate. ICC/IF: Rat primary cortical neuroepithelial cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, 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	pH: 8.00 Constituents: 2.42% Tris, 0.75% Glycine
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab254043 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
ICC/IF		1/1000.
WB		1/3000. Predicted molecular weight: 32 kDa.

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.

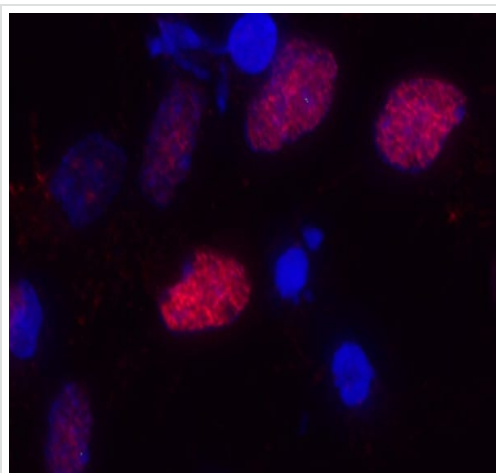
Domain

The bHLH is essential for interaction with NKX2-2.

Cellular localization

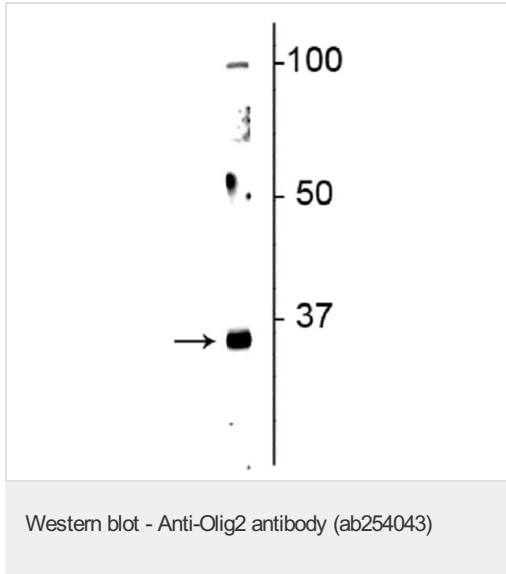
Nucleus. Cytoplasm. The NLS contained in the bHLH domain could be masked in the native form and translocation to the nucleus could be mediated by interaction either with class E bHLH partner protein or with NKX2-2.

Images



Rat primary cortical neuroepithelial cells labeling Olig2 using ab254043 (red) at a 1/1000 dilution in ICC/IF. The cells were treated with basic FGF for 30 hrs prior to staining (this induces Olig2 expression in these primary cells).

Immunocytochemistry/ Immunofluorescence - Anti-Olig2 antibody (ab254043)



Anti-Olig2 antibody (ab254043) at 1/3000 dilution + Neonatal rat brain lysate

Predicted band size: 32 kDa

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

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