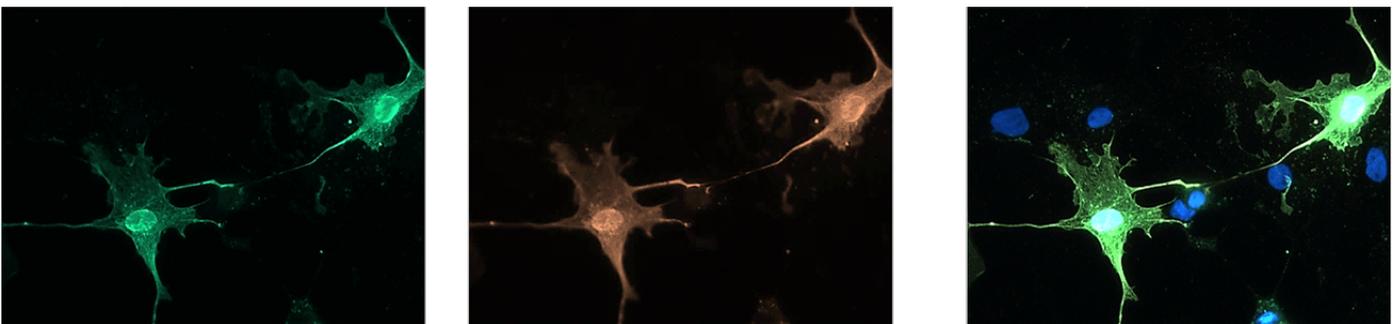


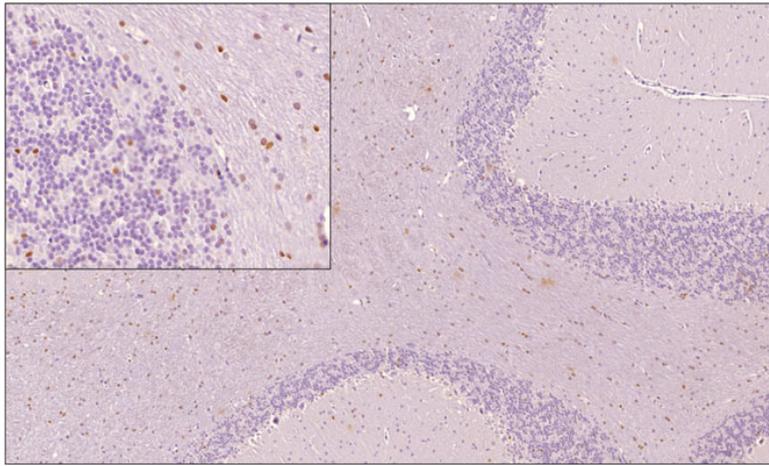
Product Datasheet**Chickens make *better* antibodies.****Anti-Olig2 Antibody****Overview**

Catalog #	OLIG2
Concentration	0.2 mg/mL
Host Species	Chicken Polyclonal
Format	IgY Fraction
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS" pH 7.2) with bovine serum albumin (BSA, 0.5%) added to prevent absorption to the plastic and sodium azide (0.02%, w/v) added as a preservative
Applications	IHC 1:1000 ICC 1:1000 WB
Species Reactivity	Human, Mouse, and Rat
Immunogen	N-terminal half of human OLIG2 was used to immunize chickens to avoid cross-reactivity with OLIG3
Molecular Weight	35 kDa
Cite this Antibody	Aves Labs Cat# OLIG2, RRID: AB_2924438

Images

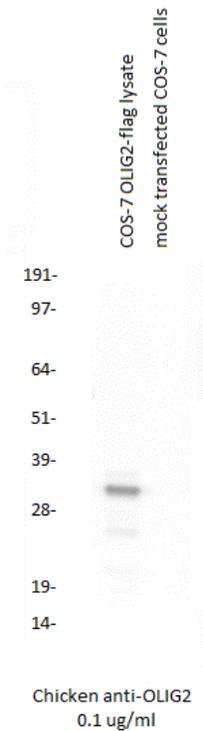


Immunofluorescence of COS-7 cells expressing OLIG2-flag using anti-OLIG2 antibody (green) and rabbit anti-flag antibody (red). Blue is DAPI nuclear stain showing nuclei of both transfected and untransfected cells. Staining shows 100% correspondence between chicken anti-OLIG2 signal and anti-flag in transfected cells.



Above: Sagittal section of formalin fixed, paraffin-embedded rat brain showing nuclear staining of OLIG2 positive cells within the white matter of cerebellum as expected. Inset (top left) shows higher magnification. Sections were stained with chicken anti-OLIG2 antibody at 1:1,000 dilution and detected with anti-chicken HRP.

Right: COS-7 cells were transfected with OLIG2-flag cDNA or mock transfected for 48 hours and lysed. Equal amounts of cell lysates were separated by SDS-PAGE and immunoblotted with chicken anti-OLIG2. The chicken anti-OLIG2 antibody recognizes OLIG2 protein but does not show any reactivity in the mock transfected COS-7 lysate.



Details

Target Description

OLIG2 (also known as BHLHB1, BHLHE19, PRKCBP2, RACK17) is a basic helix-loop-helix (bHLH) transcription factor essential for oligodendrocyte and motoneuron development in the spinal cord (Ono et al., 2008). OLIG2 is also known to play a key role in mediating the brain's response to cortical injury through post-injury gliosis (Chen Y et al., 2008) and is also highly expressed in malignant glioma where it has been implicated in glioma progression.

Purification Method

Eggs from hens hyperimmunized with target were used to prepare an IgY fraction which was then subjected to antigen-specific affinity purification.

Quality Control Tests

Each new lot of this antibody is tested to confirm that it recognizes a single immunoreactive band of expected molecular weight when used in Western blot on lysate from cells expressing Olig2.

Storage

Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience how chickens make better antibodies.

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