

**Product Datasheet**

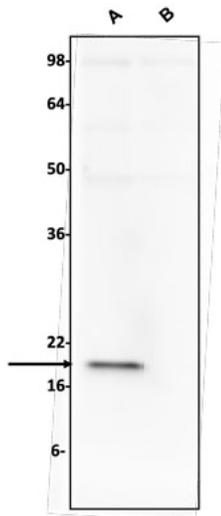
**Chickens make *better* antibodies.**

## Anti-S100B Antibody

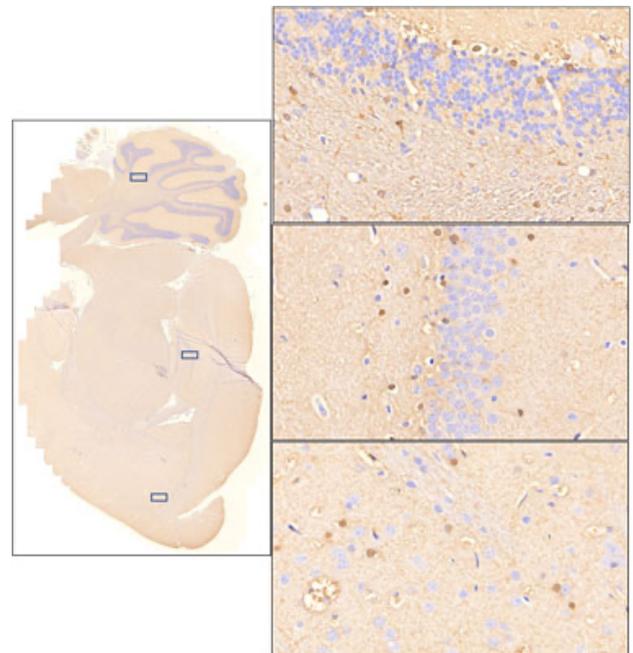
### Overview

<b>Catalog #</b>	S100B-0100 (500 $\mu$ L size) or S100B-0020 (100 $\mu$ L size)
<b>Concentration</b>	0.2 mg/mL
<b>Host Species</b>	Chicken Polyclonal
<b>Format</b>	Affinity-Purified IgY
<b>Buffer</b>	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with sodium azide (0.02%, w/v) added as a preservative.
<b>Applications</b>	ICC 1:100-1:500 IHC 1:500-1:1000 WB 1:500-1:1000
<b>Species Reactivity</b>	Human, Mouse, and Rat
<b>Immunogen</b>	His tagged full-length protein
<b>Molecular Weight</b>	14 kDa
<b>Cite this Antibody</b>	Aves Labs Cat# S100B-0100 or Aves Labs Cat# S100B-0020; RRID: AB_2943661

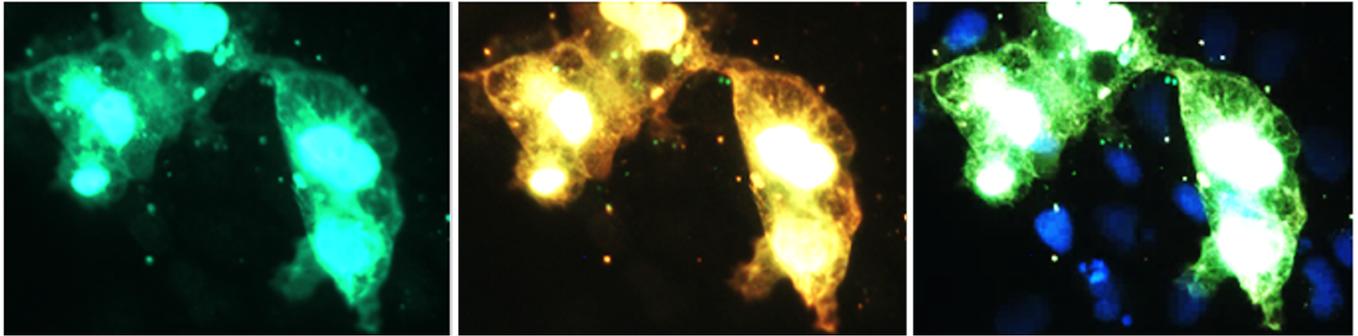
### Images



Western blotting of A) S100B-flag transfected COS-7 cell lysate (10  $\mu$ g/lane) or B) mock transfected COS-7 cell lysate (10  $\mu$ g/lane) and stained with Aves Labs anti-S100B antibody (2  $\mu$ g/ml).



Sagittal section of formalin fixed, paraffin-embedded rat brain showing staining of S100B. Images at right show higher magnification of indicated areas of interest (cerebellum, hippocampus, and cortex). Sections were stained with Aves Labs anti-S100B antibody at 1:500 dilution and detected with anti-chicken HRP.



Immunofluorescent staining of COS-7 cells expressing S100B-flag using Aves Labs anti-S100B antibody (green) and rabbit anti-flag (red). DAPI nuclear stain (blue) shows nuclei of both transfected and untransfected cells. Staining shows 100% correspondence between chicken anti-S100B signal and anti-flag in transfected cells.

## Details

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### Target Description

S100 protein is a type of low molecular weight protein found in vertebrates characterized by two calcium binding sites of the helix-loop-helix ("EF-hand type") conformation. There are at least 21 different types of S100 proteins. The name is derived from the fact that the protein is 100% soluble in ammonium sulfate at neutral pH. Most S100 proteins are homodimeric, consisting of two identical polypeptides held together by non-covalent bonds. S100A is composed of an alpha and a beta chain whereas S100B is composed of two beta chains. Although S100 proteins are structurally similar to calmodulin, they differ in that they are cell-specific, expressed in particular cells at different levels depending on environmental factors. By contrast, calmodulin is a ubiquitous and universal intracellular Ca<sup>++</sup> receptor widely expressed in many cells. S-100 is normally present in cells derived from the neural crest (Schwann cells, melanocytes, and glia cells), chondrocyte, adipocytes, myoepithelial cells, macrophages, Langerhans cells, dendritic cells, and keratinocytes. It may be present in some breast epithelial cells. This antibody stains schwannoma, ependymomas, astroglomas, almost all benign and malignant melanoma and their metastasis.

### 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 in WB to confirm that it recognizes a single immunoreactive band of expected molecular weight when used to probe brain lysate.

### 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

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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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