

Product datasheet

Anti-S100 antibody [B32.1] ab7852

★★★★★ [3 Abreviews](#) [17 References](#) [1 Image](#)

Overview

Product name	Anti-S100 antibody [B32.1]
Description	Mouse monoclonal [B32.1] to S100
Host species	Mouse
Specificity	This antibody reacts with alpha and beta subunits of human S-100 protein (21-24 kD).
Tested applications	Suitable for: IHC-FoFr
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) corresponding to Cow S100. Database link: P02639
Positive control	Melanoma tissues containing nerves, such as intestine and pancreas. Brain tissue.
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). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: 0.01% PBS
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	B32.1
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab7852 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
IHC-FoFr		1/500 - 1/1000. 1/500 - 1/1000. Fix with 4% w/v paraformaldehyde and 15% saturated picric acid in 0.1 M. phosphate buffer pH 7.4.

Target

Function

Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites.

Tissue specificity

Highly prevalent in heart. Also found in lesser quantities in skeletal muscle and brain.

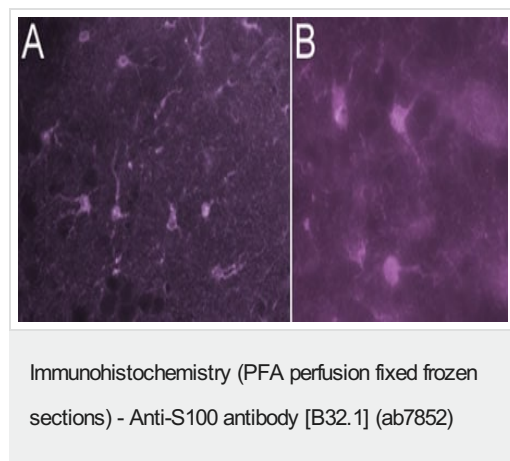
Sequence similarities

Belongs to the S-100 family.
Contains 2 EF-hand domains.

Cellular localization

Cytoplasm.

Images



ab7852 at a dilution of 1/1000, staining Astrocytes (purple; Alexa 488 secondary at 1/2000) on 30µm coronal brain section tissue in free floating IHC (see protocol link for detailed description). [A] Image taken with 20x objective and [B] Image taken with 40x objective. Images coloured in Photoshop.

NB: No labeling observed following omission of primary antibody.

Sections were viewed using an Axioplan 2 Imaging microscope (Imaging Associates) fitted with 10x, 20x and 40x Plan-Neofluorobjectives (Zeiss, Germany) and images were taken using a AxioCam Hrm digital camera (Zeiss, Germany) and AxioVision software (Imaging Associates).

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