


Anti-BLBP antibody ab32423

★★★★★ [12 Abreviews](#) [89 References](#) [6 Images](#)

Overview

Product name	Anti-BLBP antibody
Description	Rabbit polyclonal to BLBP
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help. You may also be interested in our alternative recombinant antibody, ab279649 .
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Zebrafish, Quail Predicted to work with: Chicken, Human, Pig 
Immunogen	Synthetic peptide corresponding to Mouse BLBP aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as ab32422)
Positive control	ICC/IF: Primary hippocampal rat neurons/glia, (obtained from Neuromics, cat. no. PC35101), DIV14. cells. PC12 cells. Primary mouse neurons/glia, DIV14 cells. IHC-P: Rat embryo spinal cord, Mouse embryo spinal cord, Quail developing spinal cord, Zebrafish whole body tissue sections. WB: Mouse Brain.
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 or -80°C. Avoid freeze / thaw cycle.

Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

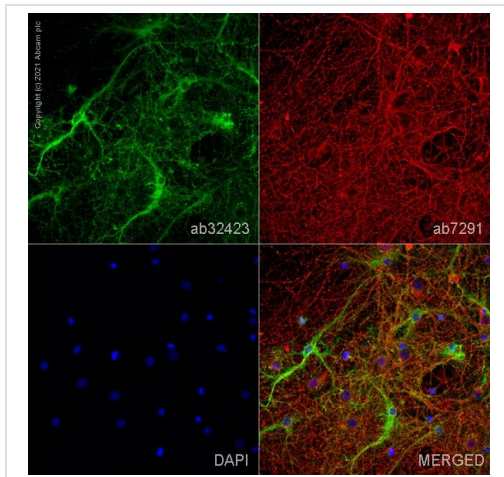
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32423 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (7)	1/200 - 1/1000.
ICC/IF	★★★★★ (3)	Use a concentration of 1 µg/ml.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 15 kDa (predicted molecular weight: 15 kDa). Abcam recommends using milk as the blocking agent.

Target

Function	B-FABP could be involved in the transport of a so far unknown hydrophobic ligand with potential morphogenic activity during CNS development. It is required for the establishment of the radial glial fiber system in developing brain, a system that is necessary for the migration of immature neurons to establish cortical layers.
Tissue specificity	Expressed in brain and other neural tissues.
Sequence similarities	Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.
Domain	Forms a beta-barrel structure that accommodates the hydrophobic ligand in its interior.
Cellular localization	Cytoplasm.

Images



Immunocytochemistry/ Immunofluorescence - Anti-BLBP antibody (ab32423)

ab32423 staining BLBP in primary hippocampal rat neurons/glia, (obtained from Neuromics, cat. no. PC35101), DIV14. cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab32423 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

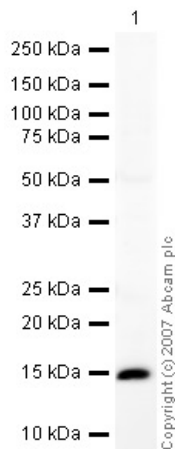
Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody (ab32423)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

BLBP detected on rat embryo day 16 spinal cord T/S on 5 micron thick formalin-fixed paraffin wax embedded sections using Rabbit polyclonal to BLBP (ab32423; incubated at 1/200 for 16h at RT). 1% BSA (10 mins at RT) used as blocking agent. Secondary Antibody was biotin labeled anti-rabbit IgG (1/300). Immunoreactivity was visualised by standard streptAvidin-biotin-complex using peroxidase as a reporter and DAB as chromogen following citric acid (pH 6) heat mediated antigen retrieval. Expected specific staining observed with ab32423 with low signal to noise ratio.



Western blot - Anti-BLBP antibody (ab32423)

Anti-BLBP antibody (ab32423) at 1/250 dilution + Mouse brain tissue lysate - total protein (0 days) (**ab7188**) at 10 µg

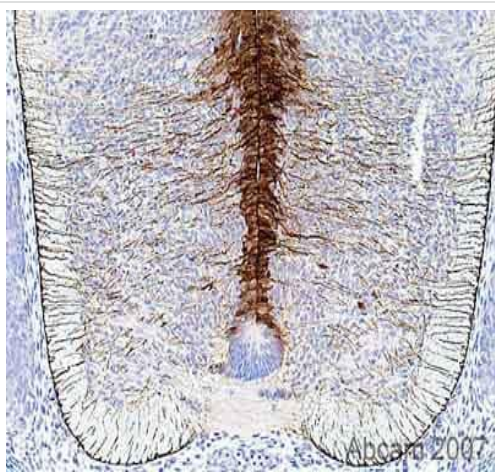
Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 15 kDa

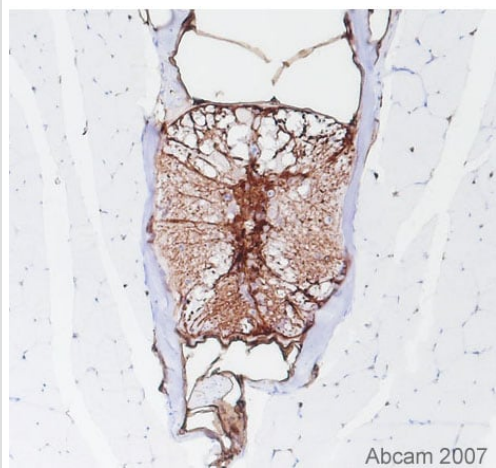
Observed band size: 15 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody (ab32423)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

BLBP detected on mouse embryo day 16 spinal cord T/S on 5 micron thick formalin-fixed paraffin wax embedded sections using Rabbit polyclonal to BLBP (ab32423; incubated at 1/300 for 16h at RT). 1% BSA (10 mins at RT) used as blocking agent. Secondary Antibody was biotin labeled anti-rabbit IgG (1/300). Immunoreactivity was visualised by standard streptAvidin-biotin-complex using peroxidase as a reporter and DAB as chromogen following citric acid (pH 6) heat mediated antigen retrieval. Expected specific staining observed with ab32423.

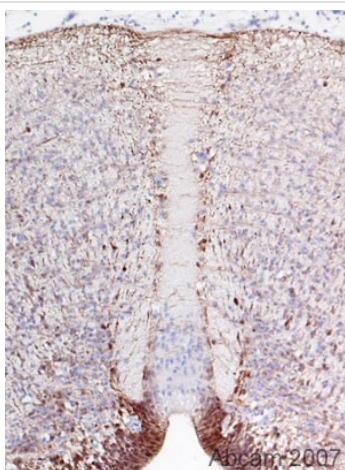


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody (ab32423)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

Immunohistochemical staining (Formaldehyde/PFA-fixed paraffin-embedded sections) for BLBP antibody (ab32423) on Zebrafish Tissue sections (young adult whole body T/S). Antigen retrieval step: Heat mediated Blocking step: 1% BSA for 10 mins at RT.

Primary Antibody: ab32423 incubated at 1/500 for 2 hours at RT.
Secondary Antibody: Biotin labelled goat anti rabbit IgG (1/300).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody (ab32423)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

Immunohistochemical detection (on Formaldehyde /PFA-fixed paraffin-embedded sections) of BLBP protein using BLBP antibody (ab32423) on Quail Tissue sections (developing spinal cord). Antigen retrieval step: Heat mediated. Blocking step: 1% BSA for 10 mins at RT.

Primary Antibody: ab32423 incubated at 1/500 for 2 hours at RT.
Secondary Antibody: Biotin labelled goat anti rabbit IgG (1/300).

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