

Anti-L Glutamate antibody ab9440

★★★★★ [5 Abreviews](#) [13 References](#) [1 Image](#)

Overview

Product name	Anti-L Glutamate antibody
Description	Rabbit polyclonal to L Glutamate
Host species	Rabbit
Specificity	The antibody is calibrated against a spectrum of antigens to assure hapten selectivity. No measurable cross-reactivity (<1:1000) was detected against glutamate in peptides or proteins. Fixed tissue cross-reactivity was tested with known targets at the recommended dilution. No measurable glutaraldehyde-fixed tissue cross-reactivity (<1:1000) was detected against L-alanine, gamma-aminobutyrate, D/L-aspartate, agmatine, guanidine, D/L-arginine, L-citrulline, L-cysteine, D/L-glutamine, glutathione, glycine, L-lysine, L-ornithine, L-serine, taurine, L-threonine, L-tryptophan, L-tyrosine. Modest cross-reactivity (1:20) was detected against D-glutamate. Significant cross-reactivity (1:8) was detected against free NAAG in competition assays (NAAG is not retained in aldehyde-fixed tissue).
Tested applications	Suitable for: IHC-FoFr, IHC-Fr
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to L Glutamate (Glutaraldehyde).
General notes	<p>The product is optimized for HPI/EHPI with gold or fluorescence detection using etched plastic sections. Filter diluted reagents with 0.2 mm syringe filters before use on EM grids. Enzyme-linked visualizations can be used but will compress the signal dynamic range and are less sensitive.</p> <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	Preservative: 0.05% Thimerosal (merthiolate) Constituents: Phosphate Buffer, 1% Goat Serum
Purity	IgG fraction
Clonality	Polyclonal
Isotype	IgG

Applications

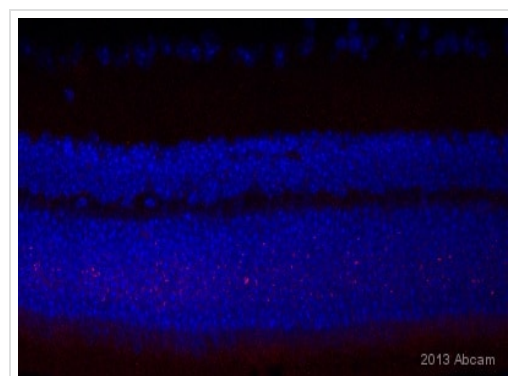
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9440 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr	★★★★★ (1)	Use at an assay dependent concentration. Use with frozen or vibratome sections is possible but will not yield optimal images as IgGs penetrate aldehyde cross-linked tissue poorly and most amino acids are present at such high levels that prozone effects occur.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.

Target

Relevance L Glutamate is a non-essential amino acid naturally occurring in the L-form. It is the most common excitatory neurotransmitter in the Central Nervous System.

Images



Immunohistochemistry (Frozen sections) - Anti-L Glutamate antibody (ab9440)

This image is courtesy of an Abreview submitted by Patricia Bogdanov

ab9440 staining L Glutamate in Mouse retina tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with methanol, permeabilized with 0.025% TBS-Triton X-100 and blocked with 5% serum for 1 hour. Samples were incubated with primary antibody (1/100 in PBS + 1% BSA) for 18 hours at 4°C. An Alexa Fluor® 594-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody.

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