abcam

Product datasheet

Anti-EAAT1 antibody ab416

★★★★★ <u>12 Abreviews</u> <u>135 References</u> 2 Images

Overview

Product name Anti-EAAT1 antibody

Description Rabbit polyclonal to EAAT1

Host species Rabbit

Tested applications Suitable for: WB, IHC-P

Species reactivity Reacts with: Rat, Human

Immunogen Synthetic peptide corresponding to Rat EAAT1 (C terminal). Corresponding to 20 residues from

the C-terminal.

Database link: P24942

(Peptide available as ab127026)

General notes Glutamate-aspartate transporter is also known as GLAST.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result, we are pleased to offer this antibody in a purified format as of 23rd June 2017. The following lots are still unpurified and still in stock as of 23rd June 2017 - GR3178513-1,GR3173220-1, GR3173220-2, GR293270-1, GR320843-2, GR320843-3, GR313192-1, GR320843-1. Lot numbers other than GR3178513-1,GR3173220-1, GR3173220-2, GR293270-1, GR320843-2, GR320843-3, GR313192-1, GR320843-1 will be purified. Please note that the dilutions may need to be adjusted accordingly. Purified antibodies have the advantage of being enriched for the fraction of immunoglobulin that specifically reacts with the target antigen and for having a reduction of serum proteins.

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.

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

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.

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Storage buffer Constituents: 2% Sucrose, 1.21% Tris, 0.75% Glycine

Purity Protein A purified

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab416 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
WB	★★★★ <u>(3)</u>	1/200 - 1/5000. Predicted molecular weight: 60 kDa.
IHC-P	★★★★★ (3)	1/50 - 1/500.

Target

Function Transports L-glutamate and also L- and D-aspartate. Essential for terminating the postsynaptic

action of glutamate by rapidly removing released glutamate from the synaptic cleft. Acts as a

symport by cotransporting sodium.

Tissue specificity Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia.

Involvement in disease Defects in SLC1A3 are the cause of episodic ataxia type 6 (EA6) [MIM:612656]. EA6 is

characterized by episodic ataxia, seizures, migraine and alternating hemiplegia.

Sequence similaritiesBelongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A3 subfamily.

Post-translational modifications

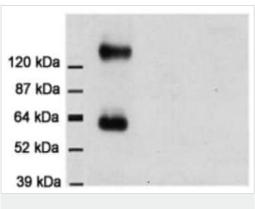
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Cellular localization

Glycosylated.

Membrane.

Images

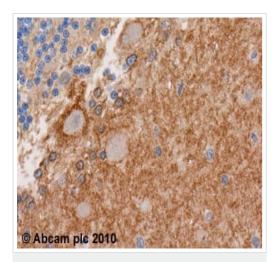


Western blot - Anti-EAAT1 antibody (ab416)

Anti-EAAT1 antibody (ab416) + Rat brain cortex

Predicted band size: 60 kDa **Observed band size:** 60 kDa

Additional bands at: 150 kDa (possible dimer)



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-EAAT1 antibody (ab416)

ab416 (1:500) staining EAAT1 in human cerebellum using an automated system (DAKO Autostainer Plus). Using this protocol there is strong staining of membrane cells in the purkinje glial region

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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Signal amplification may be required.

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