abcam

Product datasheet

Anti-EAAT2 antibody ab41621

6 Abreviews 28 References 4 Images

Overview

Product name	Anti-EAAT2 antibody
Description	Rabbit polyclonal to EAAT2
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IHC-Fr
Species reactivity	**Reacts with:** Mouse, Rat **Predicted to work with:** Human
Immunogen	Synthetic peptide within Rat EAAT2 aa 550 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: P31596 (Peptide available as ab41752)
Positive control	WB: Mouse and rat brain tissue lysates. IHC-Fr: Mouse brain tissue. ICC/IF: PC-12 cells.

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 Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab41621** in the following tested applications.

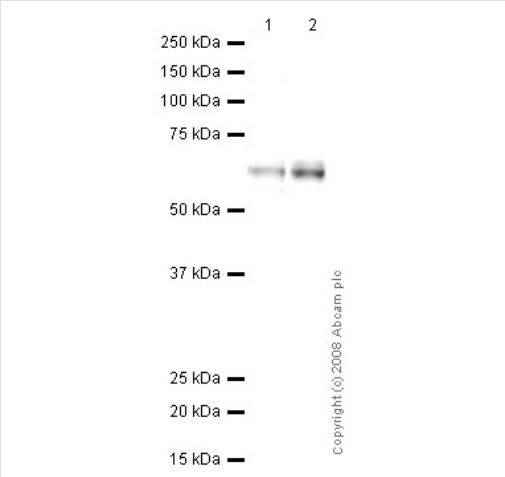
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 62 kDa (predicted molecular weight: 62 kDa).
ICC/IF	★★★★★	Use a concentration of 5 µg/ml.
IHC-Fr	★★★★☆	Use at an assay dependent concentration.

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.
Sequence similarities	Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A2 subfamily.
Post-translational modifications	Glycosylated.
Cellular localization	Membrane.

Images



Western blot - Anti-EAAT2 antibody (ab41621)

All lanes : Anti-EAAT2 antibody (ab41621) at 1 µg/ml

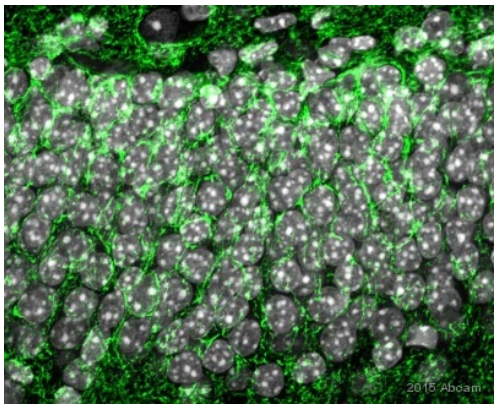
Lane 1 : Mouse brain tissue lysate
Lane 2 : Rat brain tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

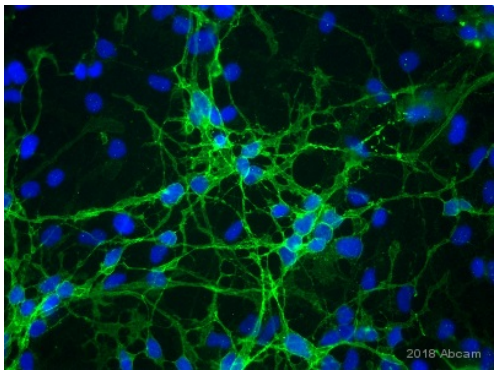
Predicted band size: 62 kDa
Observed band size: 62 kDa



Immunohistochemistry (Frozen sections) - Anti-EAAT2 antibody (ab41621)

This image is courtesy of an Abreview submitted by Daniel Berg.

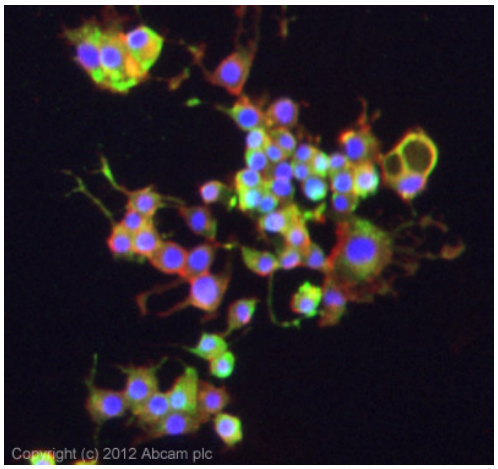
Immunohistochemical staining of PFA-fixed, frozen mouse brain tissue using undiluted ab41621. Tissue sections were permeabilized using Triton-X100 and incubated with ab41621 for 12 hours at 4°C. ab150077 (goat anti-rabbit IgG H&L Alexa Fluor® 488) was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-EAAT2 antibody (ab41621)

Methanol fixed human astrocytes (differentiated from H9-derived neuronal) cells labeling EAAT2 using ab41621 at a 1/250 dilution, 1 hr, 22°C (green) followed by an Alexa Fluor® 488 secondary antibody (1/1000 dilution), in ICC/IF.

Cells were blocked in 5% BSA for 30 mins, 22°C.



Immunocytochemistry/ Immunofluorescence - Anti-EAAT2 antibody (ab41621)

ICC/IF image of ab41621 stained PC-12 (rat adrenal gland pheochromocytoma cell line) cells.

The cells were fixed in 4% formaldehyde (10 minutes) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1 hour to permeabilize the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab41621, 5 µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1 hour. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1 hour. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 µM.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors