


## Product datasheet

# Anti-EAAT2 antibody ab41621

★★★★☆ 6 Abreviews 48 References 3 Images

### Overview

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<b>Product name</b>	Anti-EAAT2 antibody
<b>Description</b>	Rabbit polyclonal to EAAT2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat <b>Predicted to work with:</b> Human 
<b>Immunogen</b>	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: <a href="#">P31596</a>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 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.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab41621** in the following tested applications.

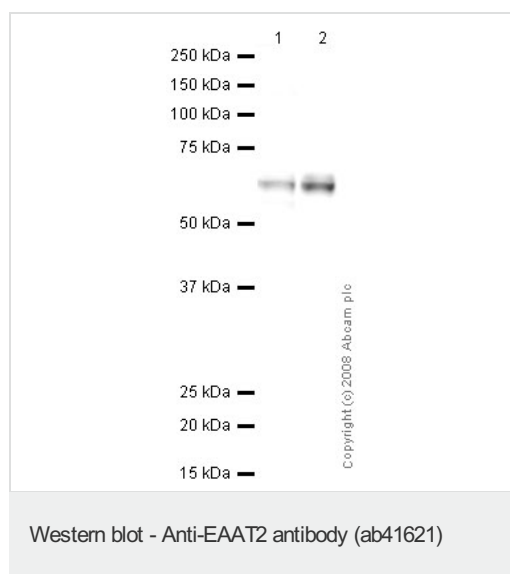
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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.

## Target

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

## Images



**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.

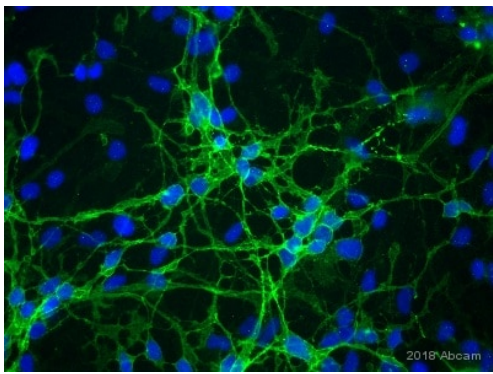
### Secondary

**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

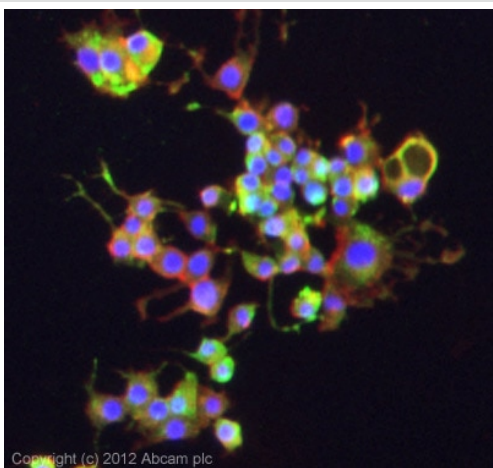


Immunocytochemistry/ Immunofluorescence - Anti-EAAT2 antibody (ab41621)

This image is courtesy of an anonymous Abreview.

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.

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

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