

Product datasheet

Anti-EAAT3 antibody [EPR6774(B)] ab124802

Recombinant RabMAb

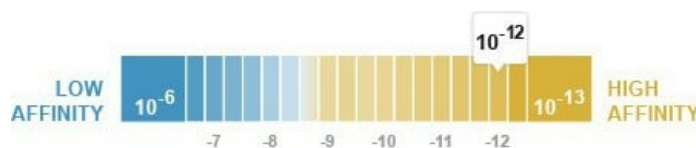
★★★★☆ [3 Abreviews](#) [16 References](#) [6 Images](#)

Overview

Product name	Anti-EAAT3 antibody [EPR6774(B)]
Description	Rabbit monoclonal [EPR6774(B)] to EAAT3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human EAAT3 aa 150-250. The exact sequence is proprietary.
Positive control	WB: Human fetal brain, human brain and human testis lysates . IHC-P: Human kidney tissue, and human glioma tissue. Flow Cyt: U-87 MG cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 3.80 x 10 ⁻¹² M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide
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	Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6774(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124802 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

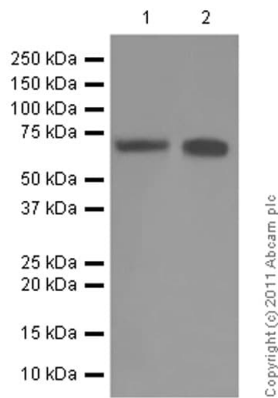
Application	Abreviews	Notes
IHC-P	★★★★★ (1)	1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/10000 - 1/50000. Detects a band of approximately 70 kDa (predicted molecular weight: 57 kDa).

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

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. Negatively regulated by ARL6IP5.
Tissue specificity	Expressed in all tissues tested including liver, muscle, testis, ovary, retinoblastoma cell line, neurons and brain (in which there was dense expression in substantia nigra, red nucleus, hippocampus and in cerebral cortical layers).
Sequence similarities	Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A1 subfamily.
Post-translational modifications	Glycosylated.
Cellular localization	Membrane.

Images



Western blot - Anti-EAAT3 antibody [EPR6774(B)]
(ab124802)

All lanes : Anti-EAAT3 antibody [EPR6774(B)] (ab124802) at 1/50000 dilution ((unpurified))

Lane 1 : Human fetal brain tissue lysate

Lane 2 : Human testis tissue lysate

Lysates/proteins at 10 µg per lane.

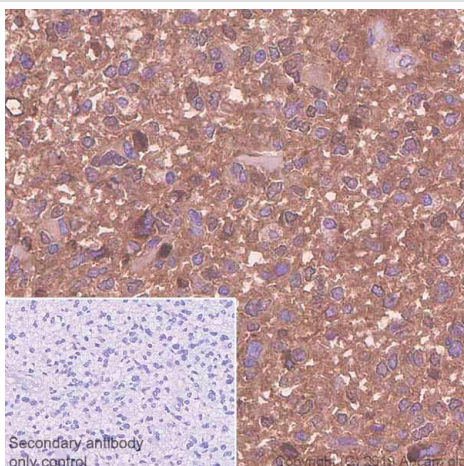
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Observed band size: 70 kDa

Exposure time: 30 seconds

Blocking and Diluting buffer : 5% NFDm/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EAAT3 antibody [EPR6774(B)] (ab124802)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human glioma tissue sections labeling EAAT3 with purified ab124802 at 1/1000 dilution (0.8 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-EAAT3 antibody [EPR6774(B)] (ab124802)

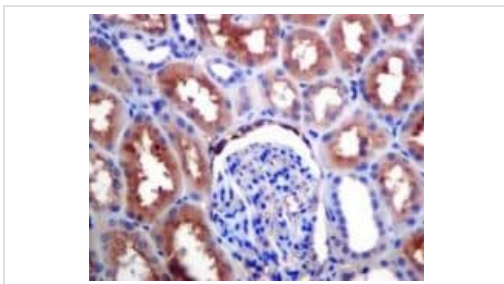
Anti-EAAT3 antibody [EPR6774(B)] (ab124802) at 1/1000 dilution (Purified) + Human brain lysates at 15 μ g

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 70 kDa

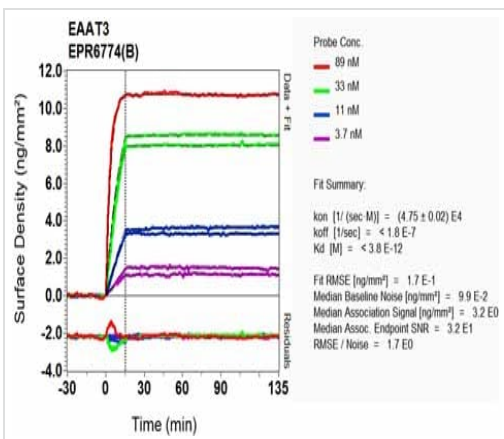
We are unsure how to define the extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EAAT3 antibody [EPR6774(B)] (ab124802)

Unpurified ab124802, at 1/500 dilution, staining EAAT3 in paraffin-embedded Human kidney tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.







OI-RD Scanning - Anti-EAAT3 antibody [EPR6774(B)] (ab124802)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-EAAT3 antibody [EPR6774(B)] (ab124802)

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