




Product datasheet

Anti-VGLUT2 antibody ab178538

[1 References](#) [1 Image](#)

Overview

Product name	Anti-VGLUT2 antibody
Description	Goat polyclonal to VGLUT2
Host species	Goat
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow, Dog, Pig 
Immunogen	Synthetic peptide corresponding to Human VGLUT2 aa 521-534 (internal sequence) (Cysteine residue). NP_065079.1. Sequence: EDELDEETGDITQN Database link: Q9P2U8 <div>  Run BLAST with  Run BLAST with </div>
Positive control	Human cerebellum lysate.
General notes	<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). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified

Purification notes	ab178538 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

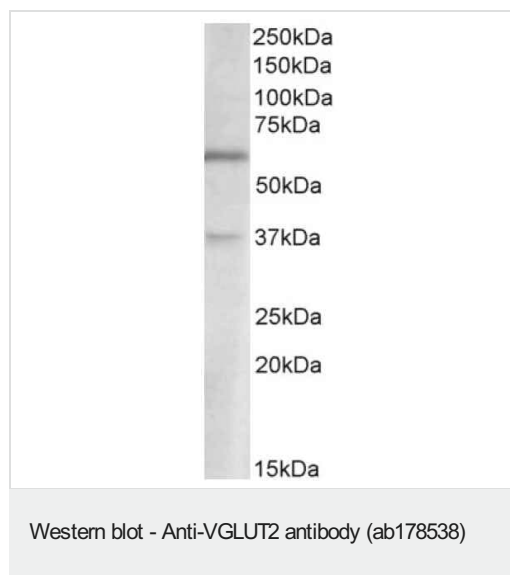
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab178538 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 64 kDa). A 1 hour primary incubation is recommended for this product. An additional band of unknown identity was also consistently observed at 37kDa. This band was successfully blocked by incubation with the immunizing peptide.

Target

Function	Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.
Tissue specificity	Predominantly expressed in adult brain. Expressed in amygdala, caudate nucleus, cerebral cortex, frontal lobe, hippocampus, medulla, occipital lobe, putamen, spinal cord, substantia nigra, subthalamic nucleus, temporal lobe and thalamus.
Sequence similarities	Belongs to the major facilitator superfamily. Sodium/anion cotransporter family. VGLUT subfamily.
Developmental stage	Expressed in fetal brain.
Cellular localization	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Membrane. Cell junction, synapse, synaptosome.

Images



Anti-VGLUT2 antibody (ab178538) at 2 µg/ml + Human cerebellum lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 64 kDa

Observed band size: 60 kDa

Additional bands at: 37 kDa. We are unsure as to the identity of these extra bands.

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

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