

Purified anti-VGlut2 Antibody (Previously Covance catalog# MMS-5206)

Catalog# / Size	832802 / 25 µL 832801 / 100 µL
Clone	N29/29
Regulatory Status	RUO
Other Names	Vesicular glutamate transporter 2, differentiation-associated BNPI, solute carrier family 17 member 6, differentiation-associated Na-dependent inorganic phosphate cotransporter, Dnpi
Previously	Covance Catalog# MMS-5206
Isotype	Mouse IgG1, κ
Description	Vesicular glutamate transporter (VGlut) 2, also known as solute carrier family 17 member 6 (SLC17A6) and differentiation-associated sodium-dependent inorganic phosphate cotransporter, is expressed specifically in the brain and mediates glutamate transport at presynaptic terminals. VGlut2 is involved in sensory perception including pain and taste.

Product Details

Verified Reactivity	Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a fusion protein corresponding to amino acids 501-582 (cytoplasmic C-terminus) of rat VGlut2.
Formulation	Phosphate-buffered solution.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
Application	WB - Quality tested IHC-P - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 1.0 - 10 µg per ml. For immunohistochemistry on formalin-fixed paraffin-embedded tissue, a concentration range of 5.0 - 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	This antibody is effective in immunoblotting (WB). *Expected MW: 60 kD WB Positive Control: Rat Brain Membrane lysate
RRID	AB_2728541 (BioLegend Cat. No. 832802) AB_2564960 (BioLegend Cat. No. 832801)

Antigen Details

Biology Area	Cell Biology, Neuroscience, Synaptic Biology
Molecular Family	Presynaptic proteins

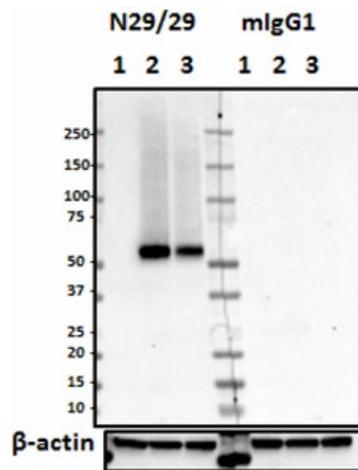
Related Protocols

[Western Blotting Protocol](#)

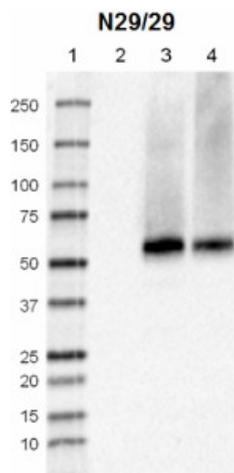
Other Formats

Purified anti-VGlut2

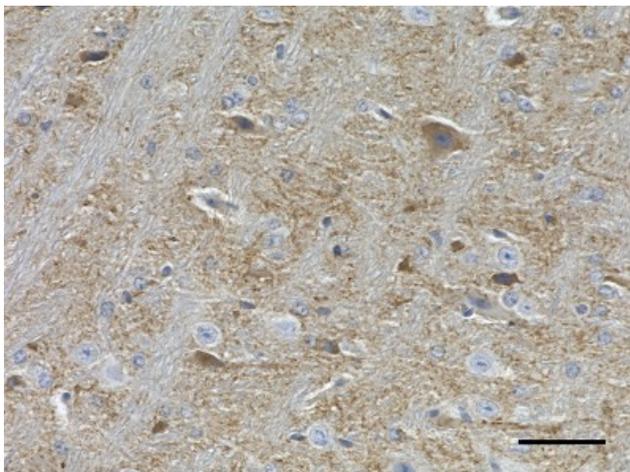
Product Data



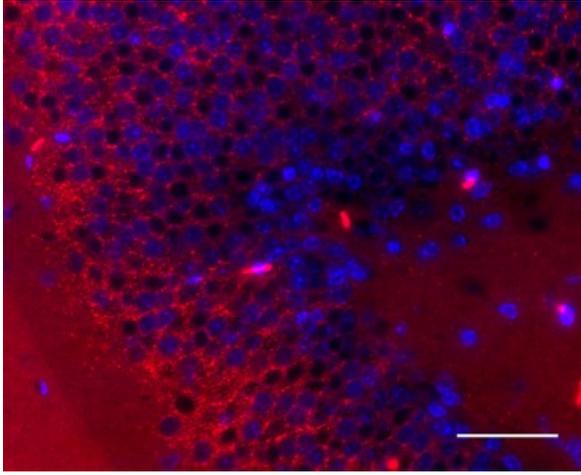
Western blot of anti-VGlut2 antibody (clone N29/29), and isotype-matched IgG1 control. Lane 1: 20 μ g of human frontal cortex membrane lysate; Lane 2: 20 μ g of mouse frontal cortex membrane lysate; Lane 3: 20 μ g of rat frontal cortex membrane lysate. Blots were incubated with 5 μ g/mL of each primary antibody overnight at 4°C, followed by incubation with horseradish peroxidase labeled goat anti-mouse secondary antibody. Enhanced chemiluminescence was used as the detection system.



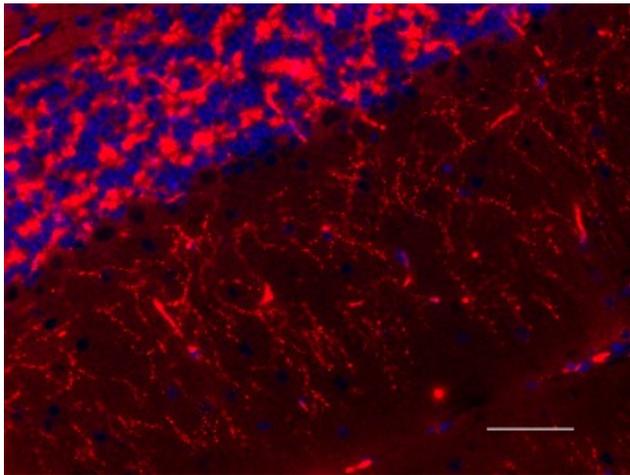
Western blot of purified anti-vGlut2 antibody (clone N29/29). Lane 1: Molecular weight marker; Lane 2: 20 μ g of human brain membrane lysate. Lane 3: 20 μ g of mouse brain membrane lysate. Lane 4: 20 μ g of rat brain membrane lysate. The blot was incubated with 5 μ g/mL of the primary antibody overnight at 4°C, followed by incubation with HRP-labeled goat anti-m IgG (Cat. No. 405306). Enhanced chemiluminescence (Cat. No. 426303) was used as the detection system.



IHC staining of purified anti-vGlut2 antibody (clone N29/29) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was permeabilized with 0.25% Triton X-100 and then incubated with 10 μ g/mL of the primary antibody overnight at 4°C. 2.5 μ g/mL Biotinylated anti-mouse secondary antibody (Cat. No. 405303) and ABC HRP kit (Vector Labs) were used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 μ m.



IHC staining of purified anti-VGluT2 antibody (clone N29/29) on formalin-fixed paraffin-embedded mouse hippocampus tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 5 $\mu\text{g}/\text{mL}$ of the primary antibody overnight at 4°C, followed by incubation with Alexa Fluor® 555 anti-mouse IgG for one hour at room temperature. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 μm



IHC staining of purified anti-VGluT2 antibody (clone N29/29) on formalin-fixed paraffin-embedded mouse cerebellum tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 5 $\mu\text{g}/\text{mL}$ of the primary antibody overnight at 4°C, followed by incubation with Alexa Fluor® 555 anti-mouse IgG for one hour at room temperature. Nuclei were counterstained with DAPI. The image was captured with a 40X objective. Scale bar: 50 μm

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