AB-NN361-1

VGLUT1 Antibody

Pan-specific monoclonal antibody (S28-9) for monitoring the expression of rat VGLUT1

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Target Protein

Name Long:	Vesicular glutamate transporter 1 (VGLUT1)
Alias:	BNPI, SLC17A1, SLC17A1/VGLUT1, Solute Carrier family 17 member 7, Vesicular glutamate transporter 1, VGLUT 1, Brain-specific Na(+)-dependent inorganic phosphate cotransporter
UniProt ID:	Q62634 - Rat
Human Predicted Mass (KDa):	61.613 (560 AA; Q9P2U7-1); 59.887 (548 AA; Q9P2U7-3); 53.946 (493 AA; Q9P2U7-2)
Observed SDS-PAGE Mass (KDa):	52

Immunogen

Antibody Immunogen Source:	Fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGlut1

Production

Antibody Host Species:	Mouse
Antibody Type:	Monoclonal
Antibody Ig Isotype Clone Lot:	203 IgG1
Antibody Purification:	Protein G purified
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	15DE1
Storage Buffer:	Phosphate buffered saline, pH 7.4, 50% glycerol, 0.09% sodium azide
Storage Conditions and Stability:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

Applications

Product Use:	WB | IHC
Antibody Dilution Recommended:	WB (1:1000); optimal dilutions for assays should be determined by the user.
Antibody Species Reactivity:	Human | Mouse | Rat
Antibody Positive Control:	1 µg/ml of SMC-394 was sufficient for detection of VGLut1 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Target Detection Immunoblotting:	Detects a ~52 kDa protein.
Antibody Cross Reactivities:	No cross-reactivity against VGlut2.