

Rabbit VGluT1 Polyclonal Antibody | anti-SLC17A7 antibody

VGluT1 Antibody

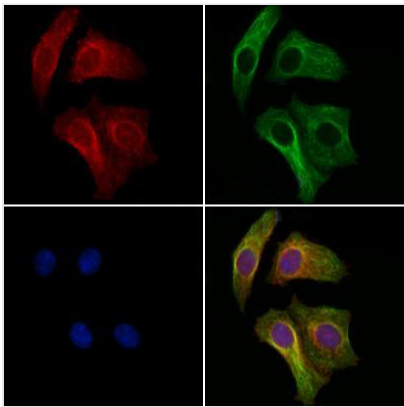
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31262	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(80%), Bovine(80%), Horse(80%), Sheep(80%), Rabbit(80%), Dog(80%)	ELISA

PRODUCT SYNONYMS

VGluT1; Polyclonal Antibody; VGluT1 Antibody; BNPI; Brain specific Na (+) dependent inorganic phosphate cotransporter; Brain specific Na dependent inorganic phosphate cotransporter; Brain-specific Na(+)-dependent inorganic phosphate cotransporter; Slc17a7; Solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter); member 7; Solute carrier family 17 member 7; Vesicular glutamate transporter 1; VGLU1_HUMAN; anti-SLC17A7 antibody

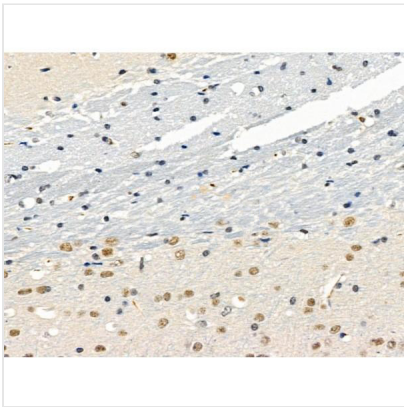
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(80%), Bovine(80%), Horse(80%), Sheep(80%), Rabbit(80%), Dog(80%)
Clonality	Polyclonal
Isotype	IgG
Specificity	VGluT1 Antibody detects endogenous levels of total VGluT1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	560
Applicable Applications for anti-SLC17A7 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human VGluT1, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



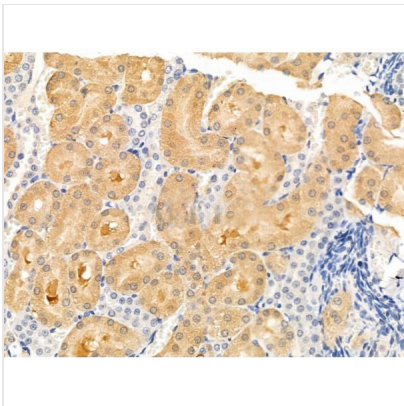
IF (Immunofluorescence)

AAA31262 staining H2O2 treated Hela cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA31262) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



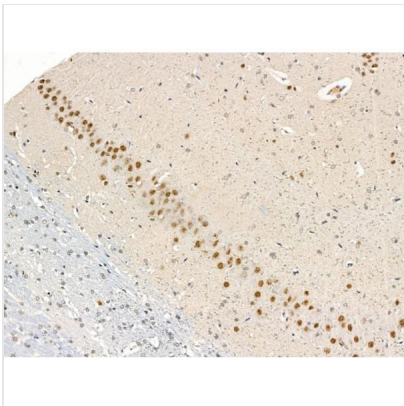
IHC (Immunohistochemistry-Paraffin)

AAA31262 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



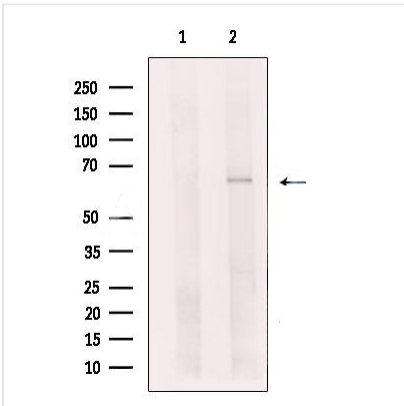
IHC (Immunohistochemistry-Paraffin)

AAA31262 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



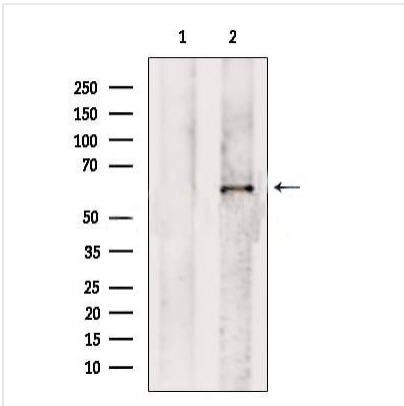
IHC (Immunohistochemistry-Paraffin)

AAA31262 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Mouse Kidney, using VGLuT1 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from Hela cells, using VGLuT1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC17A7 antibody	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. Subcellular Location: Cytoplasmic vesicle>Secretory vesicle>Synaptic vesicle membrane. Membrane>Multi-pass membrane protein. Cell junction>Synapse>Synaptosome. Tissue Specificity: Expressed in several regions of the brain including amygdala, cerebellum, cerebral cortex, hippocampus, frontal lobe, medulla, occipital lobe, putamen and temporal lobe. Subunit Structure: Interacts with SHANK3. Similarity: Belongs to the major facilitator superfamily. Sodium/anion cotransporter family. VGLUT subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9945322
NCBI GeneID	57030
NCBI Accession #	NP_064705.1
NCBI GenBank Nucleotide #	NP_064705.1
UniProt Accession #	Q9P2U7
Molecular Weight	Observed Molecular Weight: (Observed)61kD. Predicted Molecular Weight: (Calculated)62kDa.
NCBI Official Full Name	vesicular glutamate transporter 1
NCBI Official Synonym Full Names	solute carrier family 17 member 7
NCBI Official Symbol	SLC17A7
NCBI Official Synonym Symbols	BNPI; VGLUT1
NCBI Protein Information	vesicular glutamate transporter 1
UniProt Protein Name	Vesicular glutamate transporter 1
UniProt Gene Name	SLC17A7
UniProt Synonym Gene Names	BNPI; VGLUT1; VGluT1
UniProt Entry Name	VGLU1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.