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Rabbit Anti-VGLUT1/BNP1 antibody

SL11167R

Product Name:	VGLUT1/BNP1
Chinese Name:	脑特异性钠依赖无机磷Transporter抗体
Alias:	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; VGluT1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	62kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human VGLUT1/BNP1:301-400/560<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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; VGluT1.

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 (Potential). 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.

Similarity:
Belongs to the major facilitator superfamily.
Sodium/anion cotransporter family. VGLUT subfamily.

SWISS:
Q9P2U7

Gene ID:
57030

Database links:

Entrez Gene: 518849Cow

Entrez Gene: 57030Human

Entrez Gene: 72961Mouse

Entrez Gene: 116638Rat

Omim: 605208Human

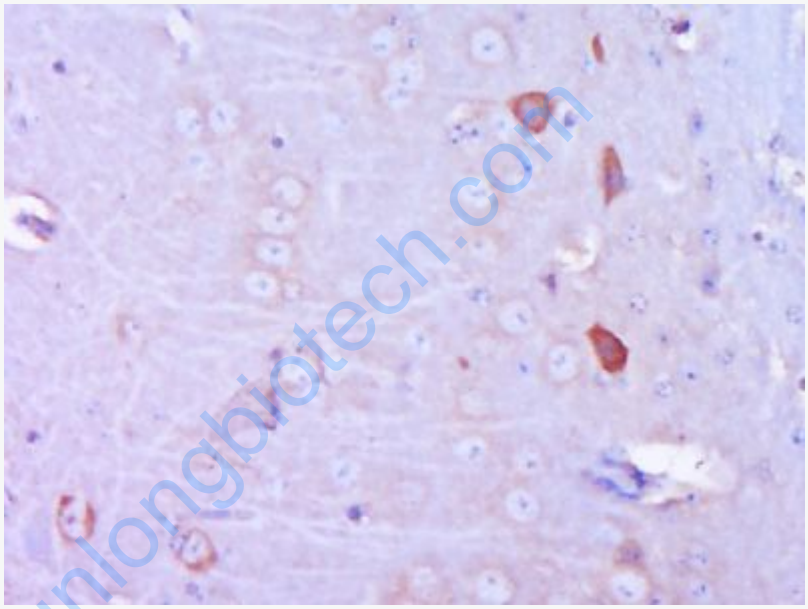
SwissProt: A4FV52Cow

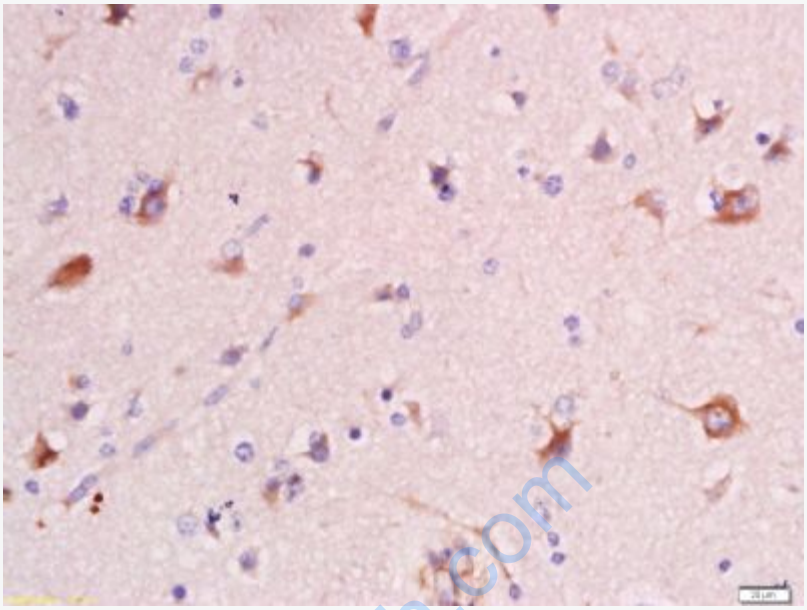
SwissProt: Q9P2U7Human

SwissProt: Q3TXX4Mouse

SwissProt: Q62634Rat

Unigene: 375616Human

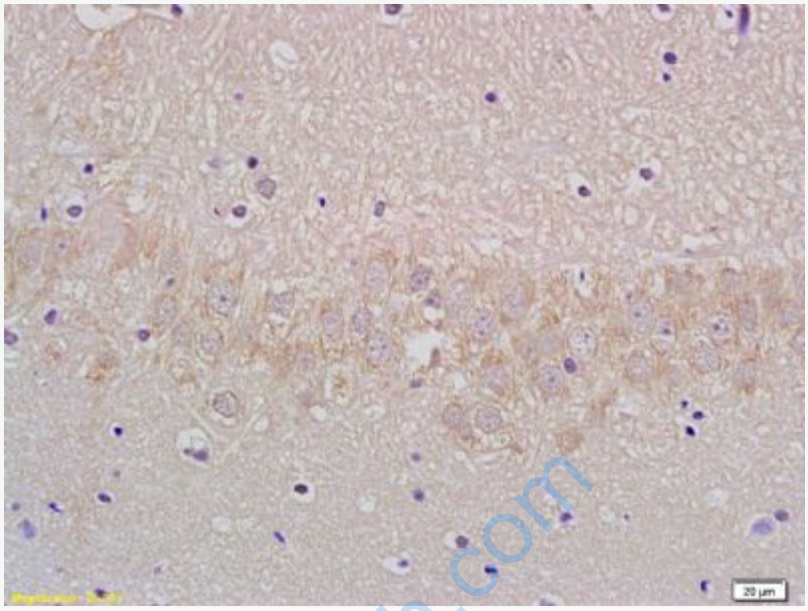
	Unigene: 255631Mouse Unigene: 10267Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (VGLU1) Polyclonal Antibody, Unconjugated (SL11167R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human gliomas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-VGLUT1/BNP1 Polyclonal Antibody, Unconjugated(SL11167R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-VGLUT1/BNP1 Polyclonal Antibody, Unconjugated(SL11167R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining