

Mouse Vesicular Glutamate Transporter 1 (VGLUT1) ELISA Kit | VGLUT1 elisa kit

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CATALOG #
AAA136916

REACTIVITY
Mouse

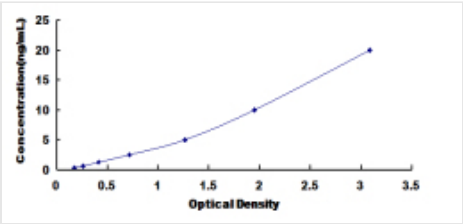
PRODUCT SYNONYMS

Vesicular Glutamate Transporter 1 (VGLUT1); Mouse Vesicular Glutamate Transporter 1 (VGLUT1) ELISA Kit; SLC17A7; BNPI; Solute Carrier Family 17 Member 7; Sodium-Dependent Inorganic Phosphate Cotransporter; Brain-specific Na(+)-dependent inorganic phosphate cotransporter; VGLUT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Vesicular Glutamate Transporter 1 (VGLUT1). No significant cross-reactivity or interference between Vesicular Glutamate Transporter 1 (VGLUT1) and analogues was observed.
Sequence Length	560
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates And Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.113ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Vesicular Glutamate Transporter 1 (VGLUT1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Vesicular Glutamate Transporter 1 (VGLUT1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VGLUT1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Vesicular Glutamate Transporter 1 (VGLUT1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Vesicular Glutamate Transporter 1 (VGLUT1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Vesicular Glutamate Transporter 1 (VGLUT1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Vesicular Glutamate Transporter 1 (VGLUT1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for VGLUT1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	9945322
NCBI GeneID	57030
NCBI Accession #	NP_064705.1
NCBI GenBank Nucleotide #	NM_020309.3
UniProt Accession #	Q9P2U7; Q6PCD0; B4DFR9; B4DG46
Molecular Weight	59,887 Da
NCBI Official Full Name	vesicular glutamate transporter 1
NCBI Official Synonym Full Names	solute carrier family 17 (vesicular glutamate transporter), 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.