

Rabbit SV2A Polyclonal Antibody | anti-SV2A antibody

SV2A Antibody

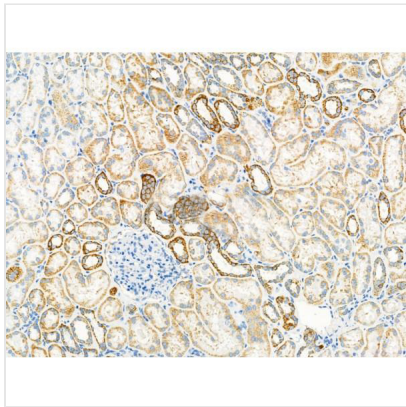
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31208	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%)	ELISA

PRODUCT SYNONYMS

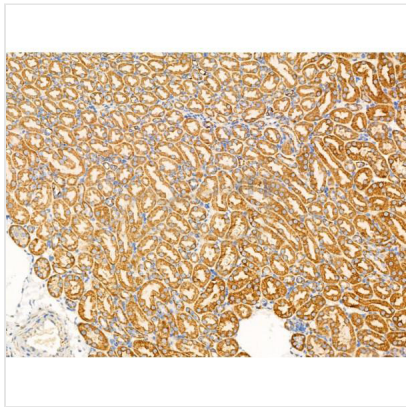
SV2A; Polyclonal Antibody; SV2A Antibody; KIAA0736; OTTHUMP00000014065; SV2; Sv2a; SV2A_HUMAN; Synaptic vesicle glycoprotein 2; Synaptic vesicle glycoprotein 2A; Synaptic vesicle protein 2a; anti-SV2A antibody

PRODUCT SPECIFICATIONS

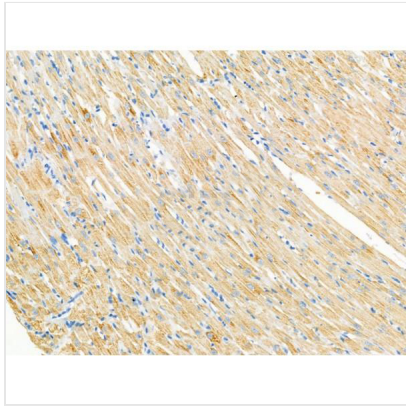
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SV2A Antibody detects endogenous levels of total SV2A.
Purity/Purification	Peptide affinity purification
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	742
Applicable Applications for anti-SV2A antibody	ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000 The optimal dilutions should be determined by the end user.
Immunogen	A synthesized peptide derived from human SV2A, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



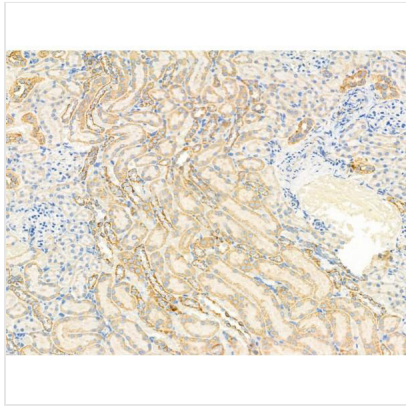
IHC (Immunohistochemistry-Paraffin)
AAA31208 at 1/100 staining Human kidney cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



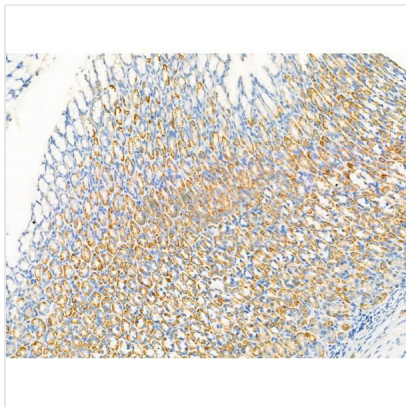
IHC (Immunohistochemistry-Paraffin)
AAA31208 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



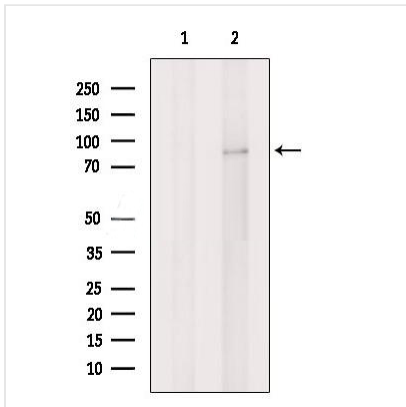
IHC (Immunohistochemistry-Paraffin)
AAA31208 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31208 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)
AAA31208 at 1/100 staining Rat stomach 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 Rat brain, using SV2A Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SV2A antibody	Function: Plays a role in the control of regulated secretion in neural and endocrine cells, enhancing selectively low-frequency neurotransmission. Positively regulates vesicle fusion by maintaining the readily releasable pool of secretory vesicles (By similarity).(Microbial infection) Receptor for the C.botulinum neurotoxin type A2 (BoNT/A, botA); glycosylation is not essential but enhances the interaction (PubMed:29649119). Probably also serves as a receptor for the closely related C.botulinum neurotoxin type A1. Post Translational Modifications: Phosphorylation by CK1 of the N-terminal cytoplasmic domain regulates interaction with SYT1.N-glycosylated. Subcellular Location: Cell junction>Synapse>Presynapse. Cytoplasmic vesicle>Secretory vesicle>Synaptic vesicle membrane>Multi-pass membrane protein. Note: Enriched in chromaffin granules, not present in adrenal microsomes. Associated with both insulin granules and synaptic-like microvesicles in insulin-secreting cells of the pancreas (By similarity). Colocalizes with ATP2B1 at photoreceptor synaptic terminals. Subunit Structure: Interacts with SYT1/synaptotagmin-1 in a calcium-dependent manner. Binds the adapter protein complex AP-2 (By similarity).(Microbial infection) Interacts with C.botulinum neurotoxin type A2 (BoNT/A, botA) (PubMed:29649119). Interaction is improved by glycosylation of SV2 (PubMed:29649119). Similarity: Belongs to the major facilitator superfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	216548223
NCBI GeneID	9900
NCBI Accession #	NP_055664.3
NCBI GenBank Nucleotide #	NP_055664.3
UniProt Accession #	Q7L0J3
Molecular Weight	82 kDa
NCBI Official Full Name	synaptic vesicle glycoprotein 2A isoform 1
NCBI Official Synonym Full Names	synaptic vesicle glycoprotein 2A
NCBI Official Symbol	SV2A
NCBI Official Synonym Symbols	SV2
NCBI Protein Information	synaptic vesicle glycoprotein 2A
UniProt Protein Name	Synaptic vesicle glycoprotein 2A
UniProt Gene Name	SV2A
UniProt Synonym Gene Names	KIAA0736
UniProt Entry Name	SV2A_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sv2a-antibody-elisa/31208>