

Goat Anti-SV2A Antibody
Peptide-affinity purified goat antibody
Catalog # AF2052a**Specification**

Goat Anti-SV2A Antibody - Product Information

Application	IF, Pep-ELISA
Primary Accession	Q7L0J3
Other Accession	NP_055664 , 9900 , 64051 (mouse) , 117559 (rat)
Reactivity	Rat
Predicted	Human, Mouse, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	82695

Goat Anti-SV2A Antibody - Additional Information**Gene ID** 9900**Other Names**

Synaptic vesicle glycoprotein 2A, SV2A, KIAA0736

Dilution

IF~~1:50~200

Pep-ELISA~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SV2A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SV2A Antibody - Protein Information**Name** SV2A**Synonyms** KIAA0736**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).

Cellular Location

Presynapse {ECO:0000250|UniProtKB:Q9JIS5}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:Q02563}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q02563}. 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. {ECO:0000250|UniProtKB:Q02563, ECO:0000250|UniProtKB:Q9JIS5}

Goat Anti-SV2A Antibody - Protocols

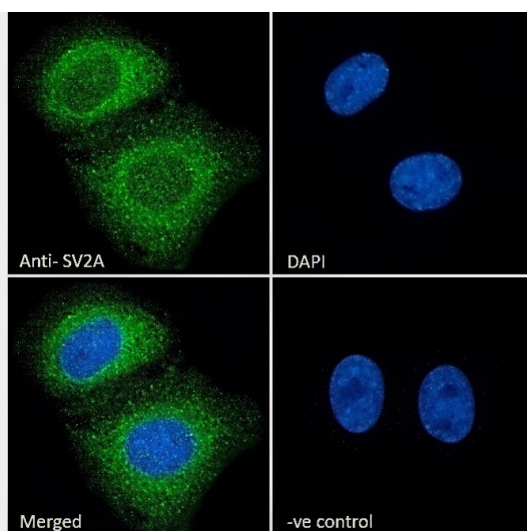
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

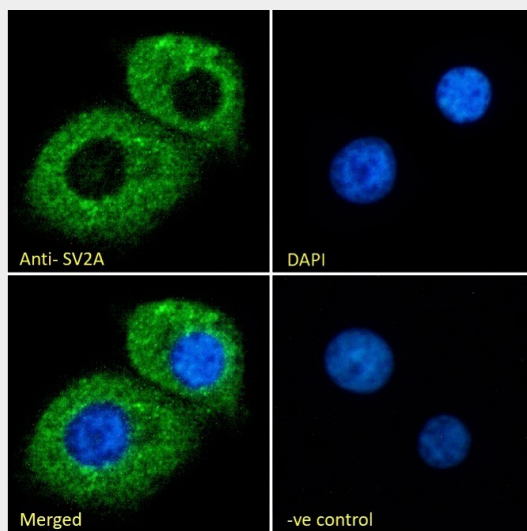
Goat Anti-SV2A Antibody - Images



AF2052a (0.3 µg/ml) staining of rat brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB07430 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (b



EB07430 Immunofluorescence analysis of paraformaldehyde fixed KNRK cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (b

Goat Anti-SV2A Antibody - References

Expression of synaptic vesicle protein 2A in epilepsy-associated brain tumors and in the peritumoral cortex. de Groot M, et al. *Neuro Oncol*, 2010 Mar. PMID 20167814.

Botulinum toxin type A inhibits the growth of LNCaP human prostate cancer cells in vitro and in vivo. Karsenty G, et al. *Prostate*, 2009 Aug 1. PMID 19399787.

Expression patterns of synaptic vesicle protein 2A in focal cortical dysplasia and TSC-cortical tubers. Toering ST, et al. *Epilepsia*, 2009 Jun. PMID 19220410.

No major role of common SV2A variation for predisposition or levetiracetam response in epilepsy. Lynch JM, et al. *Epilepsy Res*, 2009 Jan. PMID 18977120.

Synaptic vesicle protein 2 binds adenine nucleotides. Yao J, et al. *J Biol Chem*, 2008 Jul 25. PMID 18524768.