

Recombinant Synaptic Vesicle Protein 2 (SV2) (Marker of Neuroendocrine Cells) Antibody

Mouse Monoclonal Antibody [Clone r15E11]

Catalog No	Format	Size
9900-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
9900-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
9900-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

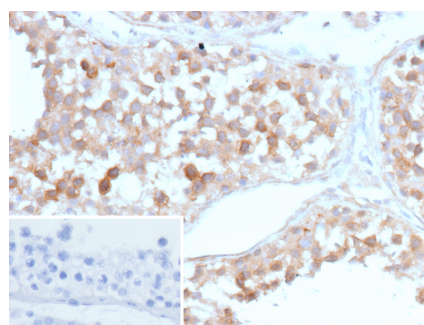
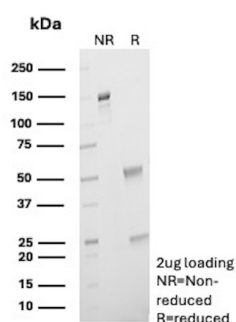
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	r15E11
Gene Name	SV2A
Immunogen	Prokaryotic recombinant protein corresponding to the N-terminal cytoplasmic domain of the human synaptic vesicle 2A molecule which shares some regions of homology with the SV2B molecule
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	93kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human
Positive Control	Human brain.

**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant Synaptic Vesicle Protein 2 (SV2) (Marker of Neuroendocrine Cells) Antibody



SDS-PAGE Analysis of Purified Synaptic Vesicle Protein 2 (SV2) Recombinant Mouse Monoclonal Antibody (r15E11). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human testis stained with Synaptic Vesicle Protein 2 (SV2) Recombinant Mouse Monoclonal Antibody (r15E11). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Synaptic vesicle protein 2 (SV2) is an integral membrane glycoprotein. It is required for normal neurotransmission and may play a role in the regulation of calcium-stimulated exocytosis. SV2 exists in three forms, SV2A, SV2B and SV2C, each containing 12 transmembrane spanning regions. SV2 proteins are among the most abundant and conserved components of synaptic vesicles in vertebrates. They are present on all small synaptic vesicles independent of transmitter type. SV2A and SV2B are widely distributed in the nervous system, whereas SV2C is only observed in a small number of neurons in a few areas of the brain. SV2A is expressed at the highest levels in subcortical regions, whereas the highest level of expression of SV2B is in the cortex and hippocampus. SV2 is expressed on secretory vesicles of neuroendocrine cells in the GI tract, pancreas, anterior pituitary gland, thyroid, parathyroid and adrenal medulla and also in exocrine chief cells of gastric mucosa.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Neuroscience
