

Recombinant Synaptophysin (Neuroendocrine Marker) Antibody

Rabbit Monoclonal Antibody [Clone MSVA-462R]

Catalog No	Format	Size
6855-RBM25-P0	Purified Ab with BSA and Azide	20 ug
6855-RBM25-P1	Purified Ab with BSA and Azide	100 ug

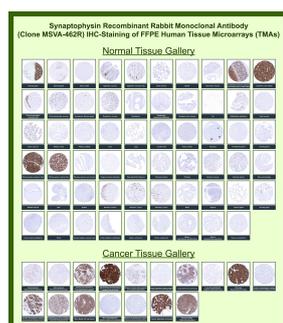
Applications	Tested Dilution	Note
Immunohistochemistry (IHC)	1:100-1:200	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Product Details

Clone	MSVA-462R
Immunogen	Recombinant fragment (around aa 274-313) of human Synaptophysin (SYP) protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	38kDa
Cellular Localization	Cell junction, Cytoplasmic vesicle, Secretory vesicle, Synapse, Synaptic vesicle membrane, Synaptosome
Species Reactivity	Human
Positive Control	Colon: A moderate to strong staining of the axons of the Auerbach's and Meissner's plexus should be seen while the endocrine cells of the mucosa and the peripheral nerves in the mucosa must show an at least a weak to moderate staining. Pancreas: A strong staining should be seen in islets of Langerhans and in peripheral nerve fibres located between the exocrine cells.

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant Synaptophysin (Neuroendocrine Marker) Antibody



Synaptophysin Rabbit Recombinant Monoclonal Antibody (MSVA-462R) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

Specificity & Comments

This recombinant rabbit monoclonal antibody recognizes a protein of 38kDa that is identified as synaptophysin. It is an N-glycosylated integral membrane protein found in neurons and endocrine cells. Synaptophysin contains four transmembrane domains and may function as a gap junction-like channel. This antibody identifies normal neuroendocrine cells and neuroendocrine neoplasms. Diffuse, finely granular, cytoplasmic staining is observed, which probably correlates with the distribution of the antigen within neurosecretory vesicles. Synaptophysin is an independent, broad-range marker of neural and neuroendocrine differentiation.

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

Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

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

Neural Stem Cells, Neuroscience
