

## Recombinant Synaptophysin (Neuroendocrine Marker) Antibody

Rabbit Monoclonal Antibody [Clone SYP/4389R]

Catalog No	Format	Size
6855-RBM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6855-RBM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6855-RBM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

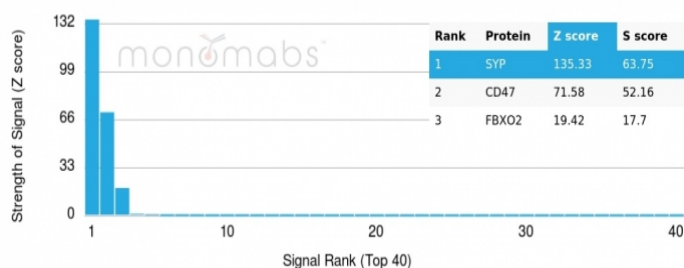
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

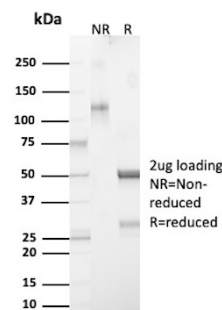
<b>Clone</b>	SYP/4389R
<b>Gene Name</b>	SYP
<b>Immunogen</b>	Recombinant fragment (around aa 274-313) of human Synaptophysin (SYP) protein (exact sequence is proprietary)
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	38kDa
<b>Cellular Localization</b>	Cell junction, Cytoplasmic vesicle, Secretory vesicle, Synapse, Synaptic vesicle membrane, Synaptosome
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Cerebellum or Pheochromocytoma., HeLa or Y79 cells. Human pancreas, HePG2

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

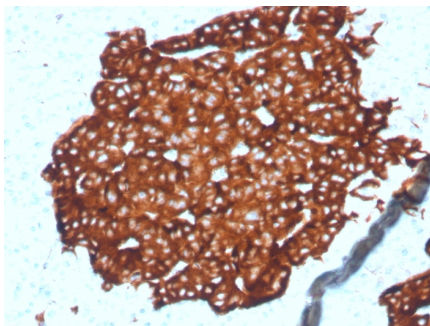
### Product Images for Recombinant Synaptophysin (Neuroendocrine Marker) Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteins using Synaptophysin Recombinant Rabbit Monoclonal Antibody (SYP/4389R). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE Analysis of Purified Synaptophysin Recombinant Rabbit Monoclonal Antibody (SYP/4389R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human pancreas stained with Synaptophysin Recombinant Rabbit Monoclonal Antibody (SYP/4389R).

### 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.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. 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, Neural Stem Cells

### 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.