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

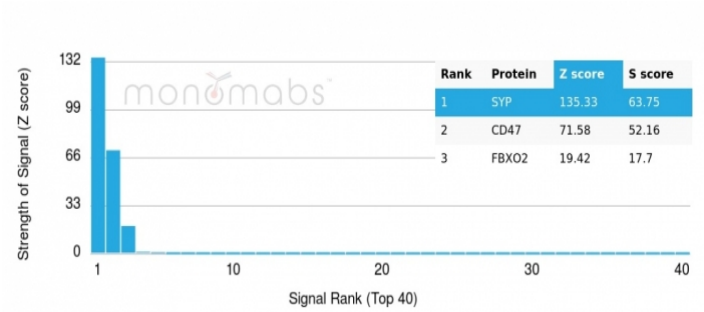
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

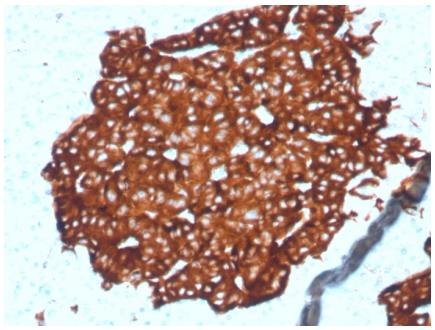
Clone	SYP/4389R
Gene Name	SYP
Immunogen	Recombinant fragment (around aa 274-313) of human Synaptophysin (SYP) protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	38kDa
Cellular Localization	Cell junction, Cytoplasmic vesicle,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



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