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36-3224: Anti-Synaptophysin (Neuroendocrine Marker) Monoclonal Antibody(Clone: SYP/3551)

Clonality :	Monoclonal
Clone Name :	SYP/3551
Application :	IHC
Reactivity :	Human
Gene :	SYP
Gene ID :	6855
Uniprot ID :	P08247
Alternative Name :	Major synaptic vesicle protein p38; MRX96; MRXSYP; Syn p38; Syp; SYPH
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa 224-313) of human Synaptophysin (SYP) protein (exact sequence is proprietary)

Description

This Monospecific 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	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.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 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);

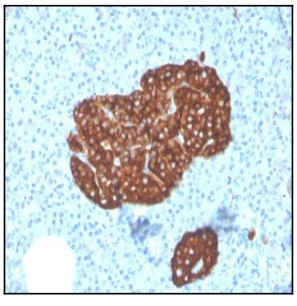

Fig. 1: Formalin-fixed, paraffin-embedded human Pancreas stained with Synaptophysin-Monospecific Mouse Monoclonal Antibody (SYP/3551).

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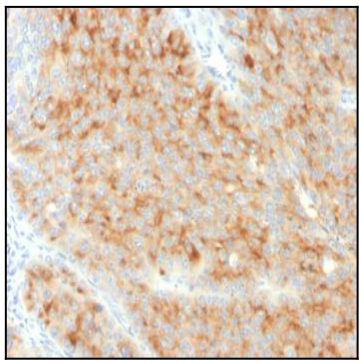

Fig. 2: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with Synaptophysin-Monospecific Mouse Monoclonal Antibody (SYP/3551).

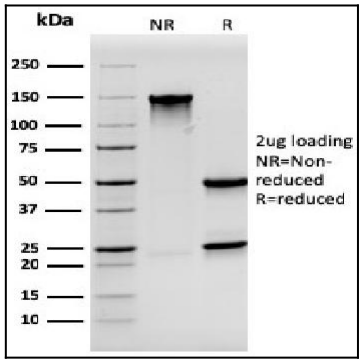

Fig. 3: SDS-PAGE Analysis Purified Synaptophysin Mouse Monoclonal Antibody (SYP/3551). Confirmation of Purity and Integrity of Antibody.

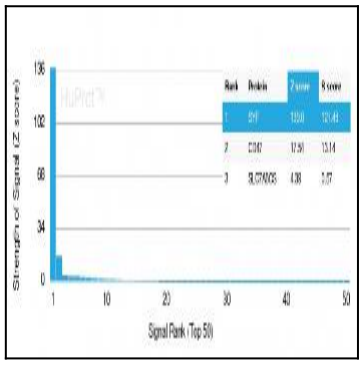

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Synaptophysin-Monospecific Mouse Monoclonal Antibody (SYP/3551). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged 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.