



## Anti- human Synaptophysin (SYP) Mouse Monoclonal Antibody

Clone: UMAB112 REF RU00022

### Intended use

Anti- human Synaptophysin (Clone: UMAB112) Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

Synaptophysin is an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with X-linked mental retardation (XLMR).

Alternative names: SYP, Major Synaptic Vesicle Protein p38, MRXSYP, Syn p38

### Reagent provided

Anti-human Synaptophysin Mouse Monoclonal Primary Antibody (Clone: UMAB112) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG2b. The protein concentration is approximately 0.4 +/- 0.05 mg/mL.

For immunohistochemistry, the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissue. It can be dependent upon the detection system used. These are guidelines only, and optimal dilutions should be determined by the individual laboratory.

### Immunogen

Full length human recombinant protein of human SYP(NP\_003170) was produced in HEK293T cell.

### Specificity

The specificity of the anti-human Synaptophysin Mouse Monoclonal Primary Antibody was established on known positive human carcinoid, pancreas and negative normal lung, placenta, and tonsil. The anti-Synaptophysin presented no staining on formalin fixed human lung, placenta, and tonsil tissue and positive staining on formalin fixed human carcinoid and pancreas tissue using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide ( $\text{NaN}_3$ ), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous,  $\text{NaN}_3$  may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

### Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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