

Product datasheet for **UM500079**

Synaptophysin (SYP) Mouse Monoclonal Antibody [Clone ID: UMAB112]

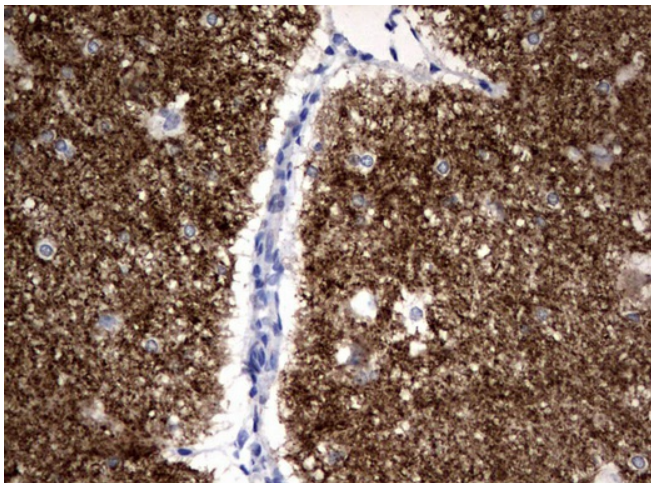
Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB112
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	IHC 1:100~200
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SYP(NP_003170) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	33.7 kDa
Gene Name:	synaptophysin
Database Link:	NP_003170 Entrez Gene 20977 Mouse Entrez Gene 24804 Rat Entrez Gene 6855 Human P08247
Background:	This gene encodes 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). [provided by RefSeq, Aug
Synonyms:	MRX96; MRXSYP

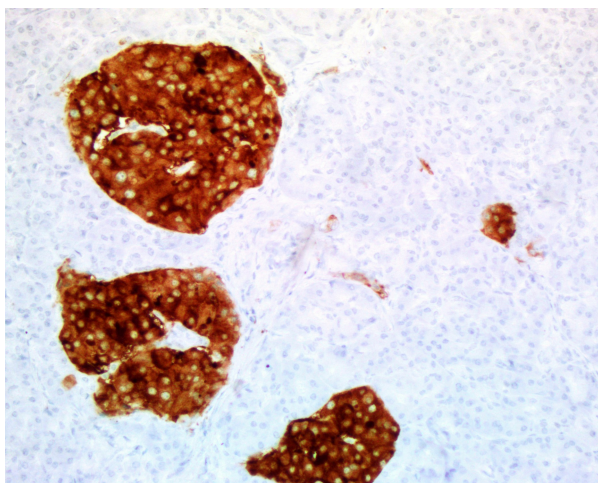

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Protein Families: Secreted Protein, Transmembrane

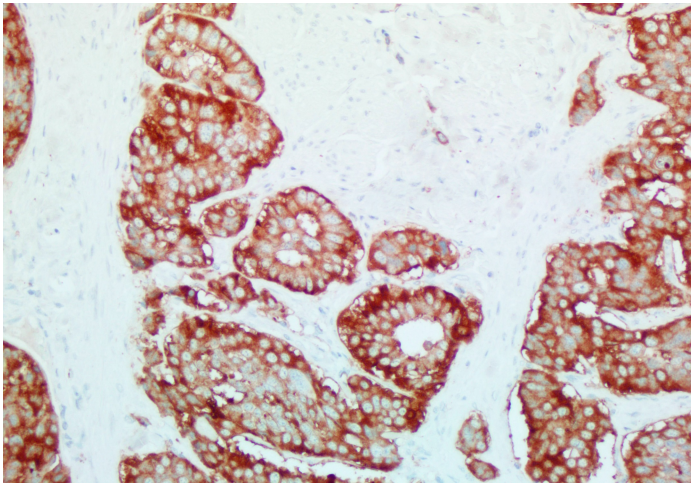
Product images:



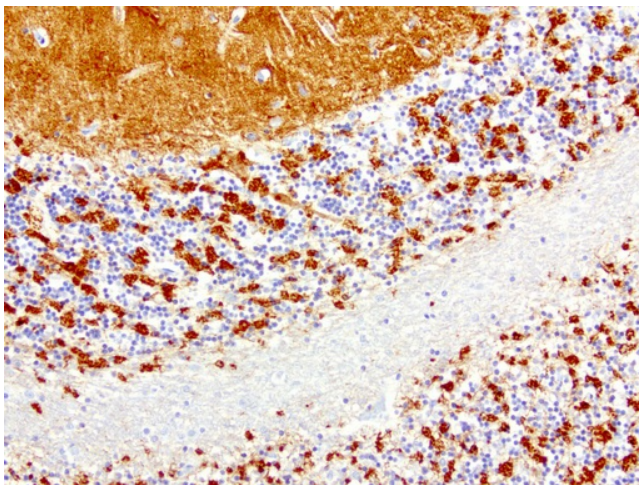
Immunohistochemical staining of paraffin-embedded Human adult brain tissue using anti-SYP mouse monoclonal antibody. (UM500079; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



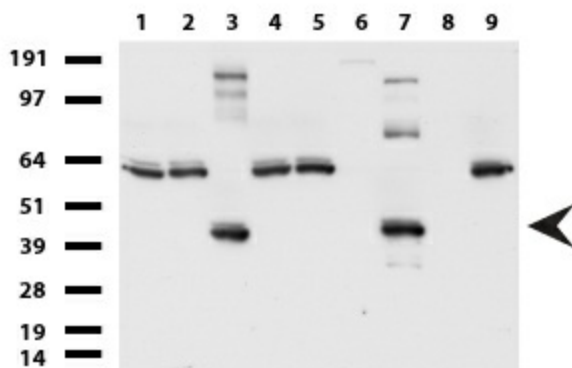
Immunohistochemical staining of paraffin-embedded human pancreas using anti-SYP clone UMAB112 mouse monoclonal antibody at 1:200 dilution of 0.4mg/mL detection with Polink2 Broad HRP DAB. UM500079 requires heat-induced epitope retrieval with Citrate pH6.0 at 95-100C 20 minutes. The image shows strong membranous and cytoplasmic staining in the Islets of Langerhans with no staining in the glandular cells.



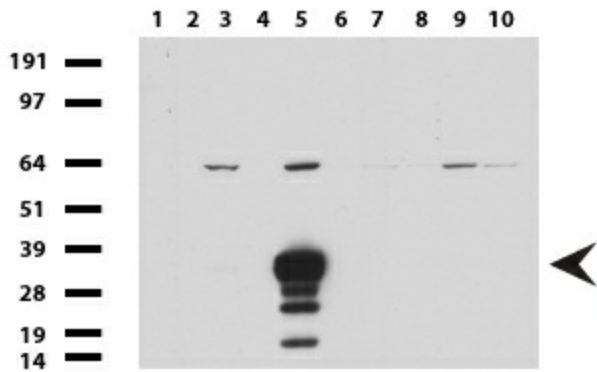
Immunohistochemical staining of paraffin-embedded human carcinoid tumor using anti-SYP clone UMAB112 mouse monoclonal antibody at 1:200 dilution of 0.4mg/mL and detection with Polink2 Broad HRP DAB. UM500079 requires heat-induced epitope retrieval with Citrate pH6.0 at 95-100C 20 minutes. The image shows strong membranous and cytoplasmic staining in the tumor cells with surrounding stroma negative.



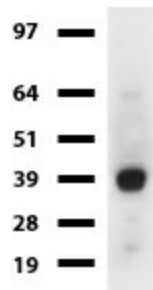
Immunohistochemical staining of paraffin-embedded human brain using anti-SYP clone UMAB112 mouse monoclonal antibody at 1:800 dilution 1mg/mL and detection with Polink2 Broad HRP DAB. UM500079 requires heat-induced epitope retrieval with citrate pH6.0 in a pressure cooker for 3 minutes at 110C. The image shows strong membranous and cytoplasmic staining in granular layer and purkinje cells.



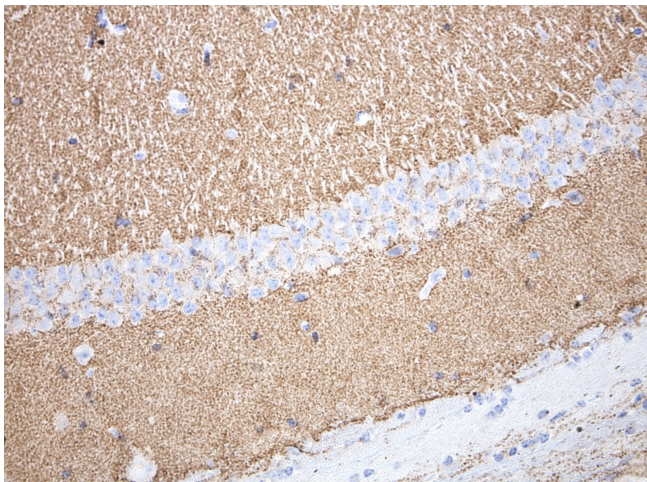
Western blot of cell lysates (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549, 5: COS7, 6: Jurkat, 7: PC-12, 8: MDCK, 9: MCF7).



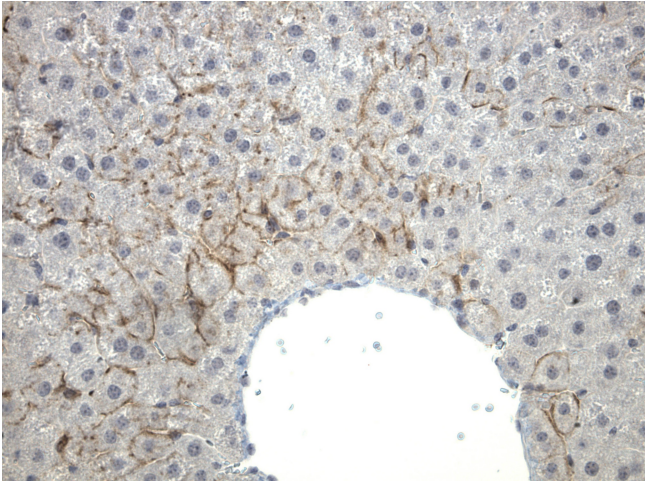
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Dilution: 1:500.



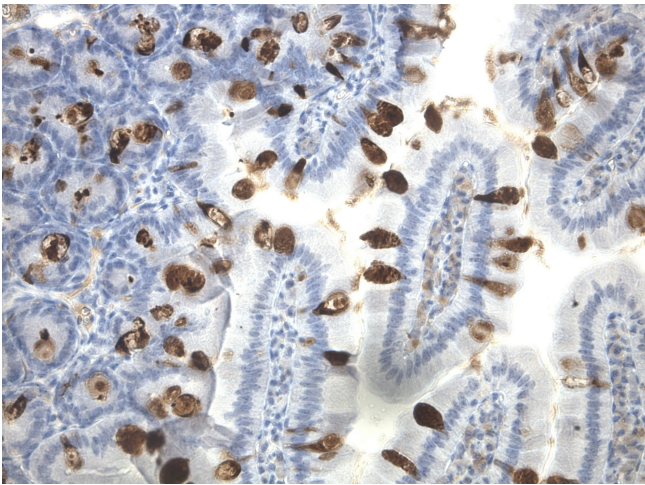
Western blot of mouse tissue lysates (20ug) from Brain. Primary antibody dilution: 1:500. Secondary antibody dilution: Mouse TrueBlot® Ultra (1:1000).



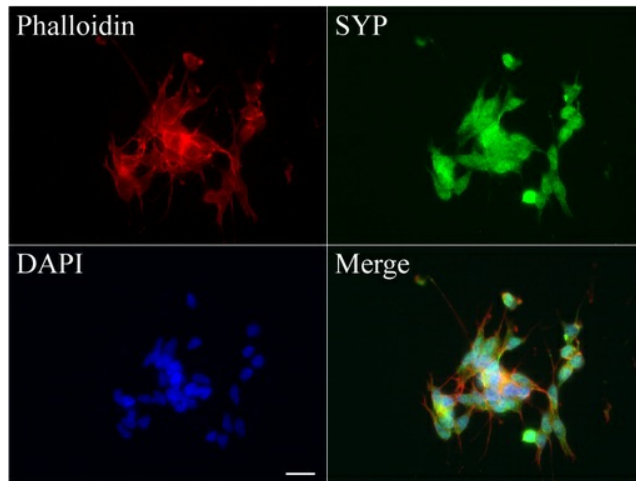
Immunohistochemical staining of paraffin-embedded mouse brain using mouse anti-SYP clone UMAB112 mouse monoclonal antibody. HIER TEE buffer ([B21-100]) (pH9) at 110C for 10 min, UM500079 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Chromogen Kit.



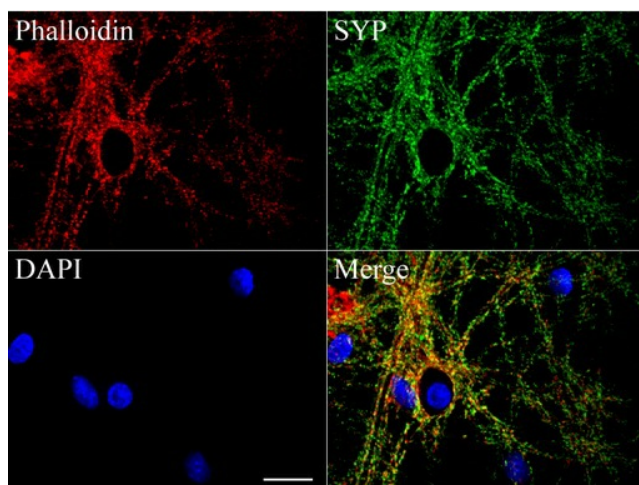
Immunohistochemical staining of paraffin-embedded mouse liver using mouse anti-SYP clone UMAB112 mouse monoclonal antibody. HIER TEE buffer ([B21-100]) (pH9) at 110C for 10 min, UM500079 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Chromogen Kit.



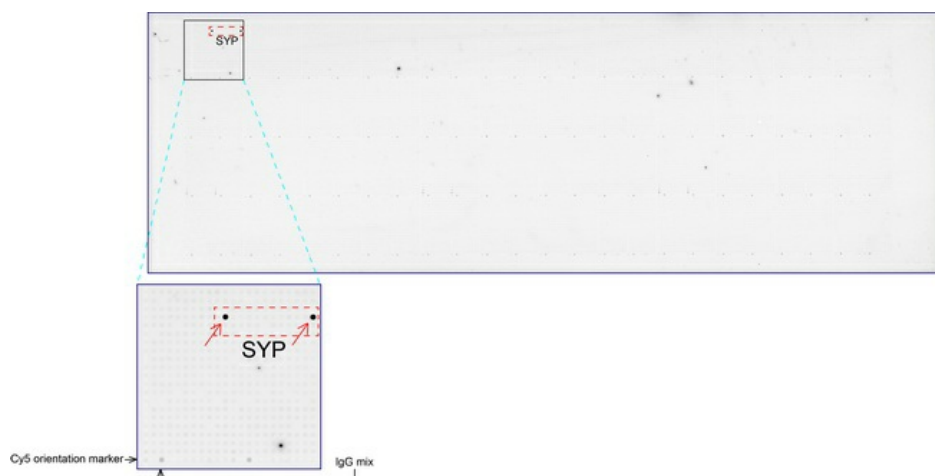
Immunohistochemical staining of paraffin-embedded mouse small intestine using mouse anti-SYP clone UMAB112 mouse monoclonal antibody. HIER TEE buffer ([B21-100]) (pH9) at 110C for 10 min, UM500079 (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Chromogen Kit.



Immunofluorescent staining of SH-SY5Y cells using anti-SYP mouse monoclonal antibody (UM500079, green, 1:100). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20µm.



Confocal immunofluorescence image of primary rat neurons labeled with anti-SYP mouse monoclonal antibody (UM500079, green, 1:100). Actin filaments were labeled with TRITC-Phalloidin (red), and nuclear with DAPI (blue). Scale bar, 20um.



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-SYP mouse monoclonal antibody (UM500079). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.