

Syt1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14398**Specification**

Syt1 antibody - middle region - Product Information

Application	IHC, WB
Primary Accession	P46096
Other Accession	NM_009306 , NP_033332
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47kDa KDa

Syt1 antibody - middle region - Additional Information**Gene ID** 20979**Alias Symbol** **AW124717, G630098F17Rik, SytI**
Other Names
Synaptotagmin-1, Synaptotagmin I, SytI, p65, Syt1**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Syt1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Syt1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Syt1 antibody - middle region - Protein Information**Name** Syt1 {ECO:0000312|MGI:MGI:99667}**Function**

Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:11242035). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)- dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been

reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neuexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (By similarity).

Cellular Location

Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250|UniProtKB:P21707}; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane {ECO:0000250|UniProtKB:P21707}; Single-pass membrane protein {ECO:0000250|UniProtKB:P21707}. Cytoplasm {ECO:0000250|UniProtKB:P21707}

Tissue Location

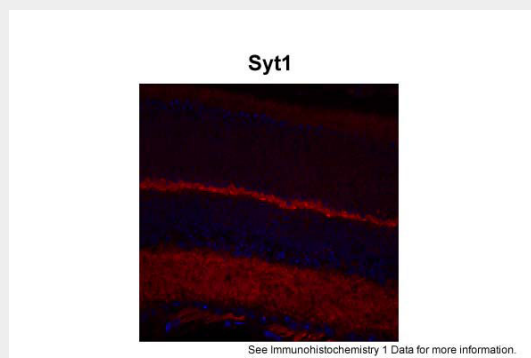
Expressed in the brain and adrenal medulla (at protein level).

Syt1 antibody - middle region - Protocols

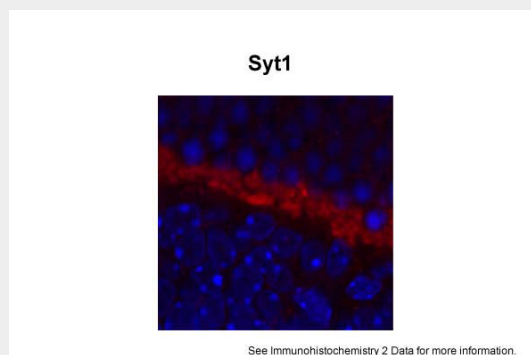
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

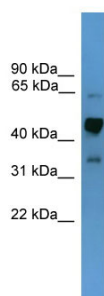
Syt1 antibody - middle region - Images



Sample Type: complete mouse retina sections Red: Primary Blue: DAPI Primary Dilution: 1:200
Secondary Antibody: Goat anti-Rabbit AF568 IgG(H+L) Secondary Dilution: 1:200 Image
Submitted by: David Zenisek Yale University



Sample Type: outer mouse plexiform layer Red: Primary Blue: DAPI Primary Dilution: 1:200
Secondary Antibody: Goat anti-Rabbit AF568 IgG(H+L) Secondary Dilution: 1:200 Image
Submitted by: David Zenisek Yale University



Syt1 antibody - middle region (AI14398) validated by WB using Mouse Spleen lysate at 1.0 µg/ml.

Syt1 antibody - middle region - References

Fukuda M., et al. J. Biol. Chem. 269:29206-29211(1994).
Carninci P., et al. Science 309:1559-1563(2005).
Lubec G., et al. Submitted (JAN-2009) to UniProtKB.
Lazzell D.R., et al. J. Biol. Chem. 279:52124-52131(2004).
Ballif B.A., et al. J. Proteome Res. 7:311-318(2008).