10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Syt1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14398

Specification

Syt1 antibody - middle region - Product Information

Application	**WB, IHC**
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, Sytl**

Other Names
Synaptotagmin-1, Synaptotagmin I, Sytl, 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 neurexins, 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}

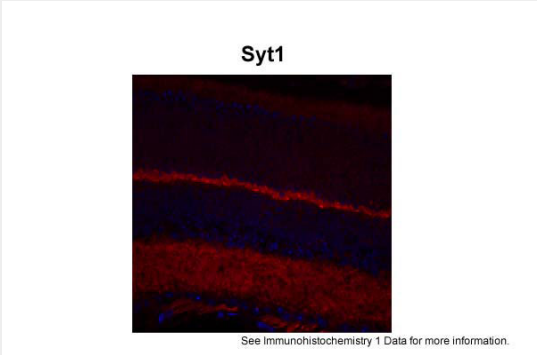
Tissue Location
Expressed in the brain and adrenal medulla (at protein level).

Syt1 antibody - middle region - Protocols

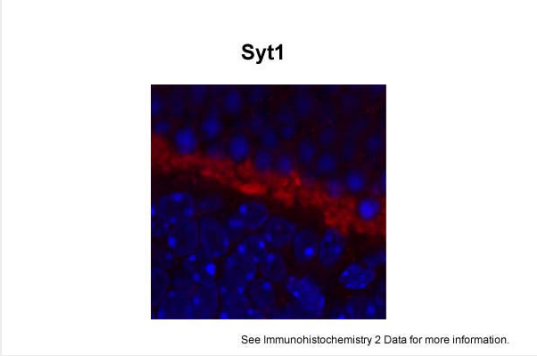
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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 UniversityÂ



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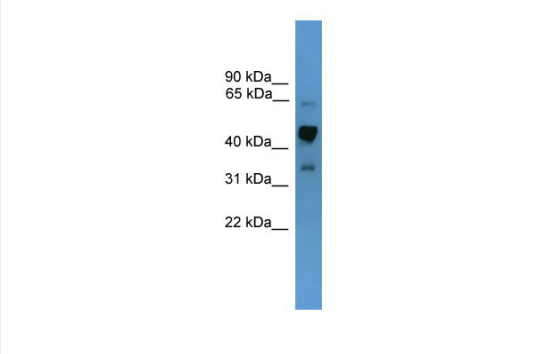
Sample Type:Â outer mouse plexiform layer Red:Â Primary Blue:Â DAPI Primary Dilution:Â 1:200 Secondary Antibody:Â Goat anti-Rabbit AF568 IgG(H+L) Secondary Dilution:Â 1:200 Image Submitted by:Â David Zenisek Yale UniversityÂ



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

Syt1 antibody - middle region - References

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