

# Syt1 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14398

## Product Information

<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">P46096</a>
<b>Other Accession</b>	<a href="#">NM_009306</a> , <a href="#">NP_033332</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Dog, Horse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	47418

## Additional Information

<b>Gene ID</b>	20979
<b>Alias Symbol</b>	AW124717, G630098F17Rik, SytI
<b>Other Names</b>	Synaptotagmin-1, Synaptotagmin I, SytI, p65, Syt1
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	Syt1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

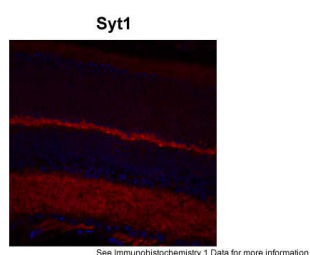
<b>Name</b>	Syt1 {ECO:0000312 MGI:MGI:99667}
<b>Function</b>	Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed: <a href="#">11242035</a> ). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed: <a href="#">7961887</a> ). 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).

<b>Cellular Location</b>	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}
<b>Tissue Location</b>	Expressed in the brain and adrenal medulla (at protein level).

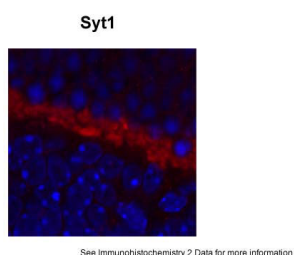
## References

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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).

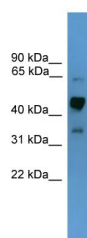
## Images



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 1.0µg/ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.