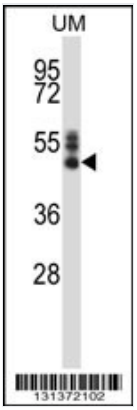
SYT7 Antibody – Rabbit Polyclonal

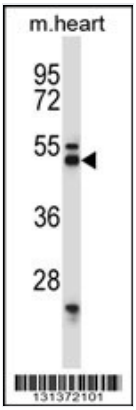
PRODUCT OVERVIEW

Product Name	SYT7, Polyclonal Antibody
Full Product Name	SYT7 Antibody (N-term)
Product Gene Name	anti-SYT7 antibody
Product Synonym Names	Synaptotagmin-7; IPCA-7; Prostate cancer-associated protein 7; Synaptotagmin VII; SytVII; SYT7; PCANAP7
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.4 (lot specific)
Specificity	This SYT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 72-101 amino acids from the N-terminal region of human SYT7.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	SYT7 peptide (MBS9220691) is used for blocking the activity of SYT7 antibody (MBS9202401)
Molecular Weight	45501
Immunogen Sequence Positions	72-101
OMIM	604146
3D Structure	ModBase 3D Structure for O43581
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-SYT7 antibody	Neuroscience; Signal Transduction
Applications Tested/Suitable for anti-SYT7 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SYT7 antibody	WB~~1:1000
Related Product Information for anti-SYT7 antibody	Synaptotagmins, such as SYT7, are brain-specific calcium-dependent phospholipid-binding proteins that play a role in synaptic exocytosis and neurotransmitter release. See MIM 600782.

Product References and Citations for anti-SYT7 antibody	Bailey, S.D., et al. Diabetes Care (2010) In press : Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Fukuda, M., et al. Biochem. J. 365 (PT 1), 173-180 (2002) : Caler, E.V., et al. J. Exp. Med. 193(9):1097-1104(2001) Mizutani, A., et al. J. Biol. Chem. 275(13):9823-9831(2000)
Other Notes	Small volumes of anti-SYT7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SYT7 purchase	MBS9202401 is an antibody targeting SYT7. Also known as SYT7 Antibody (N-term). Reactive in Human, mouse. Host: Rabbit.



Western Blot (WB) of anti-SYT7 antibody
SYT7 Antibody (N-term) western blot analysis in human uterine tomer tissue lysates (35ug/lane).This demonstrates the SYT7 antibody detected the SYT7 protein (arrow).



Western Blot (WB) of anti-SYT7 antibody
SYT7 Antibody (N-term) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the SYT7 antibody detected the SYT7 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYT7. It may not necessarily be applicable to this product.

NCBI GI #	354983504
NCBI GeneID	9066
NCBI Accession #	NP_001238994.1
NCBI Related Accession #	NP_004191.2
UniProt Primary Accession #	O43581
UniProt Secondary Accession #	Q08AH6; F5GZU9
UniProt Related Accession #	O43581
GenBank Nucleotide #	NM_001252065.1
NCBI Official Full Name	synaptotagmin-7 isoform 1
NCBI Official Synonym Full Names	synaptotagmin VII
NCBI Official Symbol	SYT7
NCBI Official Synonym Symbols	IPCA7; IPCA-7; SYTVII; PCANAP7; SYT-VII
UniProt Protein Name	Synaptotagmin-7
UniProt Synonym Protein Names	IPCA-7; Prostate cancer-associated protein 7; Synaptotagmin VII; SytVII
Protein Family	Synaptotagmin
UniProt Gene Name	SYT7
UniProt Synonym Gene Names	PCANAP7; SytVII

UniProt Entry Name	SYT7_HUMAN
NCBI Protein Information	synaptotagmin-7
NCBI Summary for SYT7	This gene is a member of the synaptotagmin gene family and encodes a protein similar to other family members that mediate calcium-dependent regulation of membrane trafficking in synaptic transmission. A similar protein in rodents mediates hormone secretion and lysosome exocytosis. In humans, expression of this gene has been associated with prostate cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for SYT7	SYT7: May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Belongs to the synaptotagmin family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 11q12.2 Cellular Component: synaptic vesicle membrane; lysosome; plasma membrane; integral to membrane; cell junction Molecular Function: calcium-dependent phospholipid binding; transporter activity; calcium ion binding Biological Process: positive regulation of calcium ion-dependent exocytosis; exocytosis; plasma membrane repair; regulation of insulin secretion
Research Articles on SYT7	**1.** the results suggest that the two C2 domains of Syt7 bind independently to planar membranes, in contrast to reported interdomain cooperativity in Syt1
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