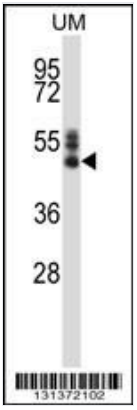
SYT7 Antibody – Rabbit Polyclonal

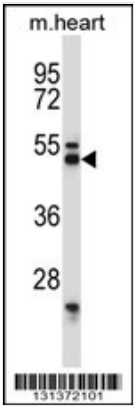
PRODUCT OVERVIEW

Product Name	SYT7, Polyclonal Antibody
Full Product Name	SYT7, NT (SYT7, PCANAP7, Synaptotagmin-7, IPCA-7, Prostate cancer-associated protein 7, Synaptotagmin VII) (Biotin)
Product Gene Name	anti-SYT7 antibody
Product Synonym Names	SYT7; PCANAP7; Synaptotagmin-7; IPCA-7; Prostate cancer-associated protein 7; Synaptotagmin VII
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	50,700 Da
OMIM	604146
3D Structure	ModBase 3D Structure for O43581
Immunogen	SYT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-101 amino acids from the N-terminal region of human SYT7.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SYT7 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-SYT7 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SYT7 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
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	MBS6353052 is an antibody targeting SYT7. Also known as SYT7, NT (SYT7, PCANAP7, Synaptotagmin-7, IPCA-7, Prostate cancer-associated protein 7, Synaptotagmin VII) (Biotin). 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 #	38570146
NCBI GeneID	9066
NCBI Accession #	NP_004191.2
UniProt Primary Accession #	O43581
UniProt Secondary Accession #	Q08AH6; F5GZC2; F5GZU9; F5H126; F5H1N2; F5H6C1
UniProt Related Accession #	O43581
GenBank Nucleotide #	NM_004200.3
NCBI Official Full Name	synaptotagmin-7 isoform 2
NCBI Official Synonym Full Names	synaptotagmin 7
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
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]

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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