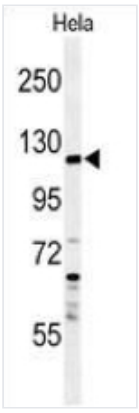
SYTL2 Antibody – Rabbit Polyclonal

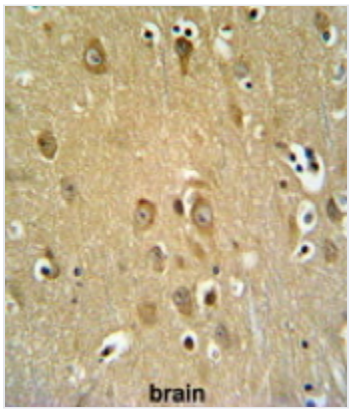
PRODUCT OVERVIEW

Product Name	SYTL2, Polyclonal Antibody
Full Product Name	SYTL2, ID (SYTL2, KIAA1597, SGA72M, SLP2, SLP2A, Synaptotagmin-like protein 2, Breast cancer-associated antigen SGA-72M, Exophilin-4)
Product Gene Name	anti-SYTL2 antibody
Product Synonym Names	Anti -SYTL2, ID (SYTL2, KIAA1597, SGA72M, SLP2, SLP2A, Synaptotagmin-like protein 2, Breast cancer-associated antigen SGA-72M, Exophilin-4)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	104,930 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (85405264..85522197, complement). Location: 11q14
OMIM	612880
3D Structure	ModBase 3D Structure for Q9HCH5
Immunogen	SYTL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 847~876 amino acids from the Central region of human SYTL2.
Product Categories/Family for anti-SYTL2 antibody	Antibodies; Abs to Cancer Markers
Applications Tested/Suitable for anti-SYTL2 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-SYTL2 antibody	Suitable for use in Western Blot, Immunohistochemistry, Flow Cytometry Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100 Flow Cytometry: 1:10-50
Related Product Information for anti-SYTL2 antibody	SYTL2 is a synaptotagmin-like protein (SLP) that belongs to a C2 domain-containing protein family. The SLP homology domain (SHD) of this protein has been shown to specifically bind the GTP-bound form of Ras-related protein Rab-27A (RAB27A). This protein plays a role in RAB27A-dependent vesicle trafficking and controls melanosome distribution in the cell periphery.
Other Notes	Small volumes of anti-SYTL2 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.

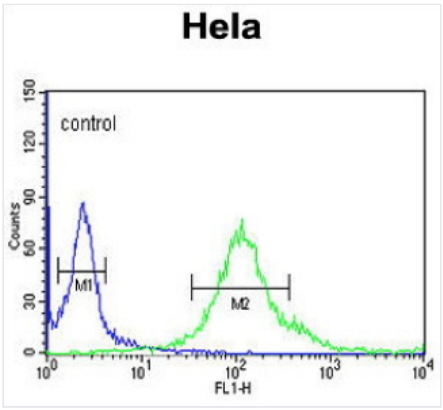
Searchable Terms for SYTL2 purchase	MBS646694 is an antibody targeting SYTL2. Also known as SYTL2, ID (SYTL2, KIAA1597, SGA72M, SLP2, SLP2A, Synaptotagmin-like protein 2, Breast cancer-associated antigen SGA-72M, Exophilin-4). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SYTL2 antibody
Western Blot analysis of Hela cell line lysates (35ug/lane)using MBS646694. SYTL2 (arrow) was detected using MBS646694.



Immunohistochemistry (IHC) of anti-SYTL2 antibody
Immunohistochemistry analysis of formalin fixed and paraffin embedded brain tissue using MBS646694 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS646694 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-SYTL2 antibody
Flow Cytometric analysis of Hela cells using MBS646694 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYTL2. It may not necessarily be applicable to this product.

NCBI GI #	223460836
NCBI GeneID	54843
NCBI Accession #	AAI36451.1
UniProt Primary Accession #	Q9HCH5
UniProt Secondary Accession #	Q2YDA7; Q6TV07; Q6ZN59; Q6ZVC5; B3KRS3; B4DJT5; B4DKW3; B4DQ26; B7SA85; B7ZLX6; B7ZLX7
UniProt Related Accession #	Q9HCH5
NCBI Official Full Name	SYTL2 protein
NCBI Official Synonym Full Names	synaptotagmin-like 2
NCBI Official Symbol	SYTL2
NCBI Official Synonym Symbols	EXO4; SLP2; SLP2A; SGA72M; CHR11SYT
UniProt Protein Name	Synaptotagmin-like protein 2

UniProt Synonym Protein Names	Breast cancer-associated antigen SGA-72M; Exophilin-4
Protein Family	Synaptotagmin-like protein
UniProt Gene Name	SYTL2
UniProt Synonym Gene Names	KIAA1597; SGA72M; SLP2; SLP2A
UniProt Entry Name	SYTL2_HUMAN
NCBI Protein Information	synaptotagmin-like protein 2; exophilin-4; chromosome 11 synaptotagmin; breast cancer-associated antigen SGA-72M
NCBI Summary for SYTL2	The protein encoded by this gene is a synaptotagmin-like protein (SLP) that belongs to a C2 domain-containing protein family. The SLP homology domain (SHD) of this protein has been shown to specifically bind the GTP-bound form of Ras-related protein Rab-27A (RAB27A). This protein plays a role in RAB27A-dependent vesicle trafficking and controls melanosome distribution in the cell periphery. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jun 2009]
UniProt Comments for SYTL2	Function: Isoform 1 acts as a RAB27A effector protein and plays a role in cytotoxic granule exocytosis in lymphocytes. It is required for cytotoxic granule docking at the immunologic synapse. Isoform 4 binds phosphatidylserine (PS) and phosphatidylinositol-4,5-bisphosphate (PIP2) and promotes the recruitment of glucagon-containing granules to the cell membrane in pancreatic alpha cells. Binding to PS is inhibited by Ca2+ while binding to PIP2 is Ca2+ insensitive. Ref.1 Ref.9 Ref.10 Subunit structure: Monomer. Binds NRXN1. Interacts with RAB27B By similarity. Binds RAB27A that has been activated by GTP-binding. Ref.1 Ref.11 Subcellular location: Isoform 1: Cytoplasm. Cell membrane. Note: Recruited on vesicular structures in cytotoxic T-lymphocytes (CTL) by RAB27A. Ref.1 Ref.9 Ref.10Isoform 4: Cell membrane. Note: In the pancreatic alpha cells distributed in both peripheral and anterior regions. Localizes on the glucagon granules in the cell periphery. Ref.1 Ref.9 Ref.10 Tissue specificity: Isoform 1 is expressed in hematopoietic lineages with a strong expression in CD4 and CD8 T-lymphocytes. It is also widely expressed in nonhematopoietic tissues. Isoform 5 is expressed only in nonhematopoietic tissues. Isoform 4 is expressed in pancreatic alpha cells. Ref.1 Ref.9 Ref.10 Domain: The RabBD domain mediates interaction with RAB27A and recruitment on to vesicular structures in cytotoxic T-lymphocytes (CTL). Ref.1 Ref.9The C2 1 domain mediates binding to phosphatidylserine (PS) and phosphatidylinositol 4,5-bisphosphate (PIP2) and localization to the cell membrane. Ref.1 Ref.9 Post-translational modification: Isoform 1 is highly susceptible to proteolytic degradation and is stabilized by the interaction with RAB27A. Sequence similarities: Contains 2 C2 domains.Contains 1 RabBD (Rab-binding) domain. Sequence caution: The sequence AAR25619.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally shortened.The sequence BAA90989.1 differs from that shown. Reason: Probable cloning artifact.The sequence BAB13423.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally extended.The sequence BAB13423.1 differs from that shown. Reason: Frameshift at position 13. The sequence BAB13423.1 differs from that shown. Reason: Sequencing errors.The sequence BAD18516.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally extended.
Research Articles on SYTL2	**1.** SLP2 may play an important role in tumorigenesis of esophageal squamous cell carcinoma.
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