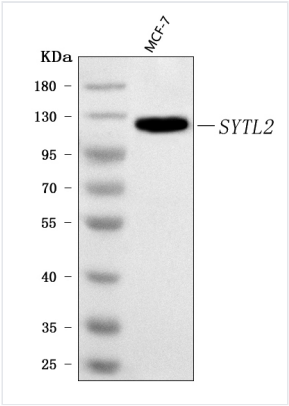
# SLP2/SYTL2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SLP2/SYTL2, Polyclonal Antibody |
| **Full Product Name** | Anti-SLP2/SYTL2 Antibody Picoband |
| **Product Gene Name** | anti-SLP2/SYTL2 antibody |
| **Product Synonym Names** | neuropeptides B and W receptor 1; Neuropeptides B/W receptor type 1; G-protein coupled receptor 7; NPBWR1; GPR7 |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| **Purity/Purification** | Immunogen affinity purified. |
| **Specificity** | Found in cerebellum and frontal cortex. Detected at high levels in hippocampus, amygdala and trachea; at moderate levels in fetal brain, pituitary gland and prostate. Not in caudate, accumbens, kidney or liver. Also detected at high levels in lung carcinoma. |
| **Preparation and Storage** | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |
| **Molecular Weight** | 84,651 Da |
| **OMIM** | EU035829 mRNA |
| **3D Structure** | ModBase 3D Structure for Q9HCH5 |
| **Immunogen** | E coli-derived human SLP2/SYTL2 recombinant protein (Position: Q522-K934). |
| **Subcellular Localization** | Cell membrane. Multi-pass membrane protein |
| **Reconstitution** | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml. |
| **Cross Reactivity** | No cross-reactivity with other proteins. |
| **Protein Function** | Interacts specifically with a number of opioid ligands. Receptor for neuropeptides B and W, which may be involved in neuroendocrine system regulation, food intake and the organization of other signals. Has a higher affinity for neuropeptide B. |
| **Product Categories/Family for anti-SLP2/SYTL2 antibody** | Primary Antibodies; Immune System Diseases; Immunology; Protein Trafficking; Signal Transduction; Signaling Pathway |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for anti-SLP2/SYTL2 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-SLP2/SYTL2 antibody** | WB: 0.25-0.5ug/ml, Human<br>ELISA: 0.1-0.5ug/ml |
| **Related Product Information for anti-SLP2/SYTL2 antibody** | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |

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| **Product References and Citations for anti-SLP2/SYTL2 antibody** | 1. Kuroda, T. S., Fukuda, M. Rab27A-binding protein Slp2-a is required for peripheral melanosome distribution and elongated cell shape in melanocytes. Nature Cell Biol. 6: 1195-1203, 2004. 2. Kuroda, T. S., Fukuda, M., Ariga, H., Mikoshiba, K. The Slp homology domain of synaptotagmin-like proteins 1-4 and Slac2 functions as a novel Rab27A binding domain. J. Biol. Chem. 277: 9212-9218, 2002.3. Menasche, G., Menager, M. M., Lefebvre, J. M., Deutsch, E., Athman, R., Lambert, N., Mahlaoui, N., Court, M., Garin, J., Fischer, A., de Saint Basile, G. A newly identified isoform of Slp2a associates with Rab27a in cytotoxic T cells and participates in cytotoxic granule selection. Blood 112: 5052-5062, 2008. |
| **Other Notes** | Small volumes of anti-SLP2/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 SLP2/SYTL2 purchase** | MBS1758905 is an antibody targeting SLP2/SYTL2. Also known as Anti-SLP2/SYTL2 Antibody Picoband. Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-SLP2/SYTL2 antibody**
Figure 1. Western blot analysis of SLP2/SYTL2 using anti-SLP2/SYTL2 antibody (MBS1758905).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human MCF-7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SLP2/SYTL2 antigen affinity purified polyclonal antibody (#MBS1758905) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for SLP2/SYTL2 at approximately 120-130 kDa. The expected band size for SLP2/SYTL2 is at 105 kDa.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLP2/SYTL2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 244790013 |
| **NCBI GeneID** | 54843 |
| **NCBI Accession #** | NP_001156423.1 |
| **UniProt Primary Accession #** | Q9HCH5 |
| **UniProt Secondary Accession #** | Q2YDA7; Q6TV07; Q6ZN59; Q6ZVC5; B3KRS3; B4DJT5; B4DKW3; B4DQ26; B7SA85; B7ZLX6; B7ZLX7 |
| **UniProt Related Accession #** | Q9HCH5 |
| **GenBank Nucleotide #** | NM_001162951.2 |
| **NCBI Official Full Name** | synaptotagmin-like protein 2 isoform g |
| **NCBI Official Synonym Full Names** | synaptotagmin like 2 |
| **NCBI Official Symbol** | SYTL2 |

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| **NCBI Official Synonym Symbols** | EXO4; SLP2; SLP2A; SGA72M; CHR11SYT; PPP1R151 |
| **UniProt Protein Name** | Synaptotagmin-like protein 2 |
| **UniProt Synonym Protein Names** | Breast cancer-associated antigen SGA-72M; Exophilin-4 |
| **UniProt Gene Name** | SYTL2 |
| **UniProt Synonym Gene Names** | KIAA1597; SGA72M; SLP2; SLP2A |
| **NCBI Protein Information** | synaptotagmin-like protein 2 |
| **NCBI Summary for SLP2/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 SLP2/SYTL2** | 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. |
| **Research Articles on SLP2/SYTL2** | **1.** SLP2 may play an important role in tumorigenesis of esophageal squamous cell carcinoma. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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