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SYPL1 Antibody
Catalog # ASC10952

Specification

SYPL1 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q16563
Other Accession	NP_006745, 5803185
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**SYPL1 antibody can be used for detection of SYPL1 by Western blot at 1 µg/mL.**

SYPL1 Antibody - Additional Information

Gene ID **6856**

Target/Specificity
SYPL1; This antibody will not recognize synaptophysin of SYPL2. Two isoforms of SYPL1 are known to exist; this antibody will only recognize the longer isoform.

Reconstitution & Storage
SYPL1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
SYPL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SYPL1 Antibody - Protein Information

Name SYPL1

Synonyms SYPL

Cellular Location
Cytoplasmic vesicle membrane; Multi-pass membrane protein. Melanosome. Note=Cytoplasmic transport vesicles (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

SYPL1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot

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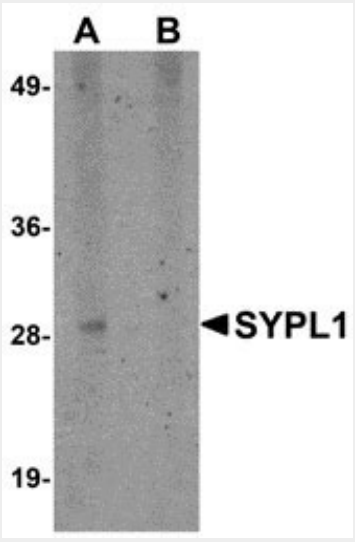
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SYPL1 Antibody - Images



Western blot analysis of SYPL1 in human brain tissue lysate with SYPL1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.

SYPL1 Antibody - Background

SYPL1 Antibody: The synaptophysin-like protein 1, also known as pantophysin, is a homolog of the neuroendocrine-specific protein synaptophysin, with the highest level of homology across its four transmembrane domains. Unlike synaptophysin however, SYPL1 is ubiquitously expressed and found in small cytoplasmic transport vesicles regardless of their content. SYPL1 is thought to play a multifunctional role in vesicle biogenesis and transport and is a component of adipocyte transport vesicles, and thus may be involved in adipocyte secretion. SYPL1 also interacts with vesicle-associated membrane protein 2 (VAMP-2) in adipocytes and associates with GLUT4-containing vesicles.

SYPL1 Antibody - References

Haass NK, Kartenbeck MA, and Leube RE. Pantophysin is a ubiquitously expressed synaptophysin homologue and defines constitutive transport vesicles. J. Cell Biol.1996; 134:731-46.
Brooks CC, Scherer PE, Cleveland K, et al. Pantophysin is a phosphoprotein component of adipocyte transport vesicles and associates with GLUT4-containin vesicles. J. Biol. Chem.2000; 275:2029-36.
Bradley RL, Cleveland KA, and Cheatham B. The adipocyte as a secretory organ: mechanism of vesicle transport and secretory pathways. Recent Prog. Horm. Res.2001; 56:329-58.