

LSAMP Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54369

Specification

LSAMP Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q13449</u>

Reactivity Rat, Pig, Dog, Bovine Host Rabbit

Clonality Polyclonal
Calculated MW 32 KDa
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human LSAMP

Epitope Specificity 51-150/338

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell membrane.

SIMILARITY Belongs to the immunoglobulin

superfamily. IgLON family. Contains 3 Ig-like C2-type (immunoglobulin-like)

domains.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

LSAMP is a neuronal surface glycoprotein found in cortical and subcortical regions of the limbic system expressed on the surface of somata and proximal dendrites of neurons. It is a member of the immunoglobulin (Ig) superfamily and belongs to the IgLON subfamily of cell adhesion molecules. LSAMP contains three Ig domains and a glycosylphosphatidylinositol anchor. It is a highly conserved protein between rodents and humans (99% sequence identity) and it is involved in the regulation of neurite outgrowth and mediation of proper circuit formation of limbic pathways. This suggests that LSAMP plays an important role in the development and function of the limbic system. In addition, LSAMP may function as a tumor suppressor in renal carcinomas.

LSAMP Polyclonal Antibody - Additional Information

Gene ID 4045

Other Names

Limbic system-associated membrane protein, LSAMP, IgLON family member 3, LSAMP, IGLON3, LAMP

Target/Specificity



Expressed on limbic neurons and fiber tracts as well as in single layers of the superior colliculus, spinal chord and cerebellum.

Dilution

WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

Storage

Store at -20 $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 $^{\circ}$ C.

LSAMP Polyclonal Antibody - Protein Information

Name LSAMP

Synonyms IGLON3, LAMP

Function

Mediates selective neuronal growth and axon targeting. Contributes to the guidance of developing axons and remodeling of mature circuits in the limbic system. Essential for normal growth of the hippocampal mossy fiber projection (By similarity).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Location

Expressed on limbic neurons and fiber tracts as well as in single layers of the superior colliculus, spinal cord and cerebellum

LSAMP Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

LSAMP Polyclonal Antibody - Images