



Rabbit Anti-LSAMP antibody

SL11091R

Product Name:	LSAMP
Chinese Name:	大脑边缘系统相关膜蛋白抗体
Alias:	IgLON family member 3; IGLON3; Lam; LAMP; Limbic system associated membrane protein; Limbic system associated membrane protein precursor; Limbic system-associated membrane protein; LSAMP; LSAMP_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	32kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human LSAMP:51-150/338
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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 °C.
PubMed:	PubMed
Product Detail:	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.

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.

Subcellular Location:

Cell membrane.

Tissue Specificity:

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

Similarity:

Belongs to the immunoglobulin superfamily. IgLON family. Contains 3 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:

Q13449

Gene ID:

4045

Database links:

[Entrez Gene: 395687](#)Chicken

[Entrez Gene: 4045](#)Human

[Entrez Gene: 268890](#)Mouse

[Entrez Gene: 29561](#)Rat

[Omin: 603241](#)Human

[SwissProt: Q98919](#)Chicken

[SwissProt: Q13449](#)Human

[SwissProt: Q8BLK3](#)Mouse

[SwissProt: Q62813](#)Rat

[Unigene: 26409](#)Human

[Unigene: 723683](#)Human

[Unigene: 310524](#)Mouse

[Unigene: 396840](#)Mouse

[Unigene: 473653](#)Mouse

[Unigene: 10176](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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