



## Rabbit Anti-LAP1 antibody

SL11351R

<b>Product Name:</b>	LAP1
<b>Chinese Name:</b>	层粘连相关多肽蛋白1抗体
<b>Alias:</b>	Densin 180; Densin; Densin-180; densin180; DKFZp68611147; KIAA1365; Lamin associated polypeptide 1; LAP 1; Leucine rich repeat containing 7; Leucine rich repeat containing protein 7; Leucine-rich repeat-containing protein 7; Lrrc 7; Lrrc7; LRRC7_HUMAN; MGC144918; OTTHUMP00000065336; OTTHUMP00000065337; OTTHUMP00000065338; Protein Lap 1; Protein lap1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	ELISA=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.
<b>Molecular weight:</b>	173kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Densin180:601-700/1537
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Densin-180 is a synaptic transmembrane protein that is tightly associated with the postsynaptic density in CNS neurons and is postulated to function as a synaptic adhesion molecule. Densin-180 is a brain-specific member of the O-sialoglycoprotein

family which is highly concentrated at synapses along dendrites. The sequence of densin-180 contains 17 leucine-rich repeats, a sialomucin domain, an apparent transmembrane domain, and a PDZ (PSD-95, Dlg, ZO-1) domain. The PDZ domain contributes to its binding to  $\alpha$ -actinin. The intracellular portion of densin-180, CaMKII $\alpha$ , interacts with  $\alpha$ -actinin at distinct binding sites and, together, they form a ternary complex stabilized by multiple interactions.

**Function:**

Required for normal synaptic spine architecture and function. Necessary for DISC1 and GRM5 localization to postsynaptic density complexes and for both N-methyl D-aspartate receptor-dependent and metabotropic glutamate receptor-dependent long term depression.

**Subunit:**

Interacts with CAMKII, CNKSR2 and DLG4 (By similarity). Interacts with CTNND2/Catenin delta-2. Forms a complex with N-cadherin through CTNND2.

**Subcellular Location:**

Cytoplasm. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density.

**Tissue Specificity:**

Brain-specific. Isoform 3 is ubiquitously expressed.

**Similarity:**

Belongs to the LAP (LRR and PDZ) protein family.

Contains 17 LRR (leucine-rich) repeats.

Contains 1 PDZ (DHR) domain.

**SWISS:**

Q96NW7

**Gene ID:**

57554

**Database links:**

[Entrez Gene: 57554](#) Human

[Entrez Gene: 242274](#) Mouse

[Entrez Gene: 117284](#) Rat

[SwissProt: Q96NW7](#) Human

[SwissProt: Q80TE7](#) Mouse

[SwissProt: P70587](#) Rat

[Unigene: 479658](#) Human

[Unigene: 132162](#) Mouse

[Unigene: 89629](#) 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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