

For Research Use Only

# LRP4 Recombinant antibody

Catalog Number: 84973-1-RR



## Basic Information

<b>Catalog Number:</b> 84973-1-RR	<b>GenBank Accession Number:</b> BC136667	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4038	<b>CloneNo.:</b> 242157D11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75096	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> low density lipoprotein receptor-related protein 4	
<b>Immunogen Catalog Number:</b> AG19413	<b>Calculated MW:</b> 1905 aa, 212 kDa	
	<b>Observed MW:</b> 245 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Positive Controls:**  
WB : rat brain tissue, mouse brain tissue, PC-3 cells

## Background Information

LRP4 (low-density lipoprotein receptor-related protein 4), also known as multiple epidermal growth factor-like domains 7 (MEGF7), is a type I single transmembrane protein of the low-density lipoprotein receptor (LDLR) family. LRP4 is composed of a large extracellular region containing multiple LDLa repeats, EGF-like domains and  $\beta$ -propeller domains, a transmembrane region and a cytoplasmic region containing an NPxY motif and a PDZ-interacting motif (PMID: 26071838). LRP4 binds agrin and recruits it to the MuSK signaling complex, which is critical for neuromuscular junction formation (PMID: 17119023; 18957220). LRP4 mutation or malfunction is implicated in disorders including congenital myasthenic syndrome, myasthenia gravis, and diseases of bone or kidney (26071838).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

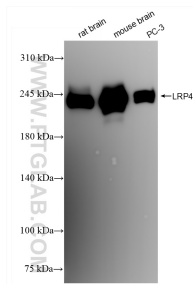
T: 4006900926

E: Proteintech-CN@ptglab.com

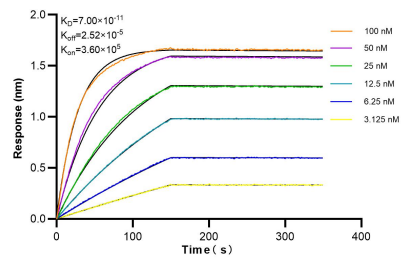
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84973-1-RR (LRP4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84973-1-RR against Human LRP4 were performed. The affinity constant is 70.0 nM.