

For Research Use Only

# LRP4 Recombinant antibody, PBS Only

Catalog Number: 84973-1-PBS



## Basic Information

<b>Catalog Number:</b> 84973-1-PBS	<b>GenBank Accession Number:</b> BC136667	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 4038	<b>CloneNo.:</b> 242157D11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75096	
<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, Indirect ELISA

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

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

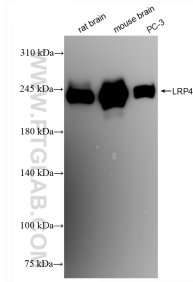
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

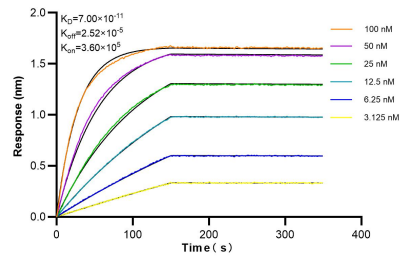
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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. This data was developed using the same antibody clone with 84973-1-PBS in a different storage buffer formulation.



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