

For Research Use Only

LRP4 Recombinant antibody, PBS Only

Catalog Number: 84973-1-PBS



Basic Information

Catalog Number: 84973-1-PBS	GenBank Accession Number: BC136667	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4038	CloneNo.: 242157D11
Source: Rabbit	UNIPROT ID: O75096	
Isotype: IgG	Full Name: low density lipoprotein receptor-related protein 4	
Immunogen Catalog Number: AG19413	Calculated MW: 1905 aa, 212 kDa	
	Observed MW: 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 β -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

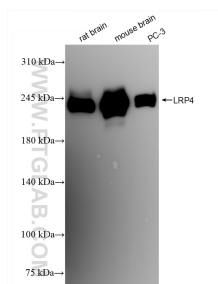
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

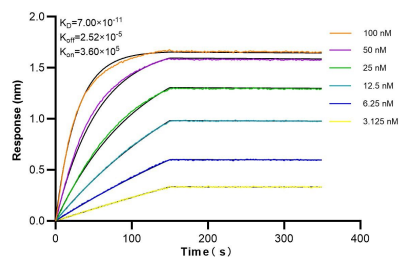
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Selected Validation Data



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. 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.