

Anti-LRP4 antibody



Description	Unconjugated Rabbit polyclonal to LRP4
Model	STJ190937
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human LRP4 protein.
Immunogen Region	290-370aa
Gene ID	4038
Gene Symbol	LRP4
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	LRP4 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Expressed in bone; present in osteoblasts and osteocytes. No expression is observed in osteoclast. Expressed in several regions of the brain.
Purification	LRP4 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Low-density lipoprotein receptor-related protein 4 LRP-4 Multiple epidermal growth factor-like domains 7
Molecular Weight	209 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6696OMIM:212780
Alternative Names	Low-density lipoprotein receptor-related protein 4 LRP-4 Multiple epidermal growth factor-like domains 7
Function	Mediates SOST-dependent inhibition of bone formation. Functions as a specific facilitator of SOST-mediated inhibition of Wnt signaling. Plays a key role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between motor neuron and skeletal muscle. Directly binds AGRIN and recruits it to the MUSK signaling complex. Mediates the AGRIN-induced phosphorylation of MUSK, the kinase of the complex. The activation of MUSK in myotubes induces the formation of NMJ by regulating different processes including the transcription of specific genes and the clustering of AChR in the postsynaptic membrane. Alternatively, may be involved in the negative regulation of the canonical Wnt signaling pathway, being able to antagonize the LRP6-mediated activation of this pathway. More generally, has been proposed to function as a cell surface endocytic receptor binding and internalizing extracellular ligands for degradation by lysosomes.
Cellular Localization	Membrane