

Recombinant Human Low-density lipoprotein receptor-related protein 4(LRP4),partial

Catalog No: #AP70514

Package Size: #AP70514-1 20ug #AP70514-2 100ug #AP70514-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human Low-density lipoprotein receptor-related protein 4(LRP4),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1747-1905aaSequence Info:Cytoplasmic Domain
Other Names	Multiple epidermal growth factor-like domains 7
Accession No.	O75096
Calculated MW	21.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	YRHKKSKFTDPGMGNLTYSNPSYRTSTQEVKIEAIPKPAMYNQLCYKKEGGPDHNYTKEKIKIVEGICLLSGDD AEWDDLKQLRSSRGGLLRDHVCMKTDTVSIQASSGSLDDTETEQLLQEEQSECSSVHTAATPERRGSLPDTG WKHERKLSSSESQV
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 mbrane. 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 domain ligands for degradation by lysosomes.

References

Bone overgrowth-associated mutations in the LRP4 gene impair sclerostin facilitator function.Leupin O., Piters E., Halleux C., Hu S., Kramer I., Morvan F., Bouwmeester T., Schirle M., Bueno-Lozano M., Fuentes F.J., Itin P.H., Boudin E., de Freitas F., Jennes K., Brannetti B., Charara N., Ebersbach H., Geisse S. , Lu C.X., Bauer A., Van Hul W., Kneissel M.J. Biol. Chem. 286:19489-19500(2011)Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.