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Product Information

Recombinant Anti-Human Irp6 Antibody Fab Fragment

Cat. No.: **MOM-18428-F(E)**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Mouse Antibody Fab Fragment is bind to Human LRP6, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

Component of the Wnt-Fzd-LRP5-LRP6 complex that triggers beta-catenin signaling through inducing aggregation of receptor-ligand complexes into ribosome-sized signalsomes. Cell-surface coreceptor of Wnt/beta-catenin signaling, which plays a pivotal role in bone formation. The Wnt-induced Fzd/LRP6 coreceptor complex recruits DVL1 polymers to the plasma membrane which, in turn, recruits the AXIN1/GSK3B-complex to the cell surface promoting the formation of signalsomes and inhibiting AXIN1/GSK3-mediated phosphorylation and destruction of beta-catenin. Required for posterior patterning of the epiblast during gastrulation.

Specific Activity

Tested positive against native antigen.

Target

LRP6

Immunogen

Cytoplasmic domain of human LRP6.

Source

Mouse

Species Reactivity

Human

Type

Fab

Expression Host

CHO

Purity

>95.0% as determined by analysis by SDS-PAGE.

Applications

Suitable for use in FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

Storage

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

ANTIGEN GENE INFOMATION

Gene Name

LRP6 low density lipoprotein receptor-related protein 6 [Homo sapiens]

Official Symbol

LRP6

Synonyms

LRP6; low density lipoprotein receptor-related protein 6; low-density lipoprotein receptor-related protein 6; LRP-6; ADCAD2; FLJ90062; FLJ90421

Gene ID

4040

mRNA Refseq

NM_002336

Protein Refseq

NP_002327

MIM

603507

UniProt ID

O75581

Chromosome Location

12p13.2

Pathway

Canonical Wnt signaling pathway, organism-specific biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; Presenilin action in Notch and Wnt signaling, organism-specific biosystem; Wnt Signaling Pathway NetPath, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem; Wnt signaling network, organism-specific biosystem; Wnt signaling pathway, organism-specific biosystem;

Function

Wnt-activated receptor activity; Wnt-protein binding; apolipoprotein binding; coreceptor activity involved in Wnt receptor signaling pathway; frizzled binding; kinase inhibitor activity; low-density lipoprotein receptor activity; protein binding; protein homodimerization activity; receptor activity; receptor binding; toxin transporter activity; NOT toxin transporter activity;

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