

LRP5 polyclonal antibody

Catalog: BS70101

Host: Rabbit

Reactivity: Mouse,Rat

Background:

LRP5 and LRP6 are single-pass transmembrane proteins belonging to the low-density lipoprotein receptor (LDLR)-related protein family. Unlike other members of the LDLR family, LRP5 and LRP6 have four EGF and three LDLR repeats in the extracellular domain, and pro-line-rich motifs in the cytoplasmic domain (1). They function as co-receptors for Wnt and are required for the canonical Wnt/ β -catenin signaling pathway (2,3). LRP5 and LRP6 are highly homologous and have redundant roles during development (4,5). The activity of LRP5 and LRP6 can be inhibited by the binding of some members of the Dickkopf (DKK) family of proteins (6,7). Upon stimulation with Wnt, LRP6 is phosphorylated at multiple sites including Thr1479, Ser1490, and Thr1493 by kinases such as GSK-3 and CK1 (8-10). Phosphorylated LRP6 recruits axin to the membrane and presumably activates β -catenin signaling (8-10). LRP5 is involved in the regulation of bone homeostasis. Mutations and polymorphisms in LRP5 are associated with bone diseases like osteoporosis-pseudoglioma syndrome and high-bone-mass disorders (11-13). In addition, mutations in LRP5 are found in patients with hyperparathyroid tumor and breast cancer (14,15).

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 18-200 kDa

Swiss-Prot:

O75197

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB 1:100 - 1:500

IF 1:50 - 1:200

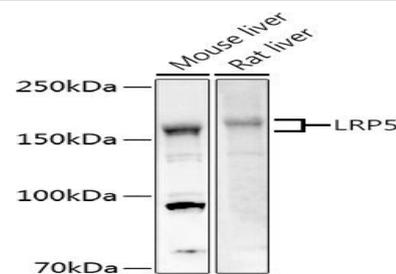
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

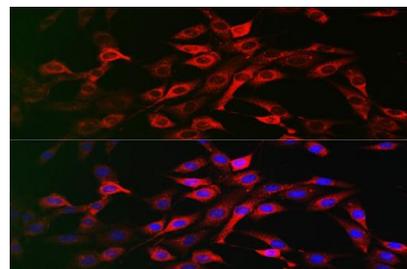
Specificity:

LRP5 polyclonal antibody detects endogenous levels of LRP5 protein.

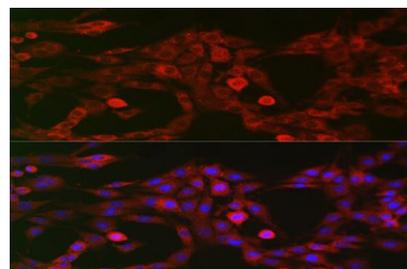
DATA:



Western blot analysis of extracts of various cell lines, using LRP5 antibody at 1:500 dilution.



Immunofluorescence analysis of NIH/3T3 cells using LRP5 pAb at dilution of 1:200 (40x lens).



Immunofluorescence analysis of PC-12 cells using LRP5 pAb at dilution of 1:200 (40x lens).

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PRODUCT DATA SHEET

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Note:

For research use only, not for use in diagnostic procedure.

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