

## LRP5 Antibody (R31397)

| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| R31397      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                        |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                        |
| <b>Format</b>             | Antigen affinity purified                                                |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                               |
| <b>Isotype</b>            | Rabbit IgG                                                               |
| <b>Purity</b>             | Antigen affinity                                                         |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| <b>UniProt</b>            | O75197                                                                   |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml                                                |
| <b>Limitations</b>        | This LRP5 antibody is available for research use only.                   |



Western blot testing of LRP5 antibody and Lane 1: rat liver; 2: mouse liver; 3: (m) NIH3T3 lysate. Predicted molecular weight ~179 kDa.

## Description

Low-density lipoprotein receptor-related protein 5 is a protein that in humans is encoded by the LRP5 gene. LRP5 is a transmembrane low-density lipoprotein receptor that binds and internalizes ligands in the process of receptor-mediated endocytosis. This protein also acts as a co-receptor with Frizzled protein family members for transducing signals by Wnt proteins and was originally cloned on the basis of its association with diabetes mellitus type 1 in humans. This protein plays a key role in skeletal homeostasis. In addition to that, the binding of Axin to LRP5 is an important part of the Wnt signal transduction pathway, and it also acts as a target for the inhibitory effects of Dickkopf, another developmental protein, on Wnt signaling.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the LRP5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human Low-density lipoprotein receptor-related protein 5 (IHAVEEVSLLEFSAH) was used as the immunogen for this LRP5 antibody (100% homologous in human, mouse and rat).

## Storage

After reconstitution, the LRP5 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.