

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human LRP-5 in Western blots.                                                                                                                                                                                                                                       |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human LRP-5<br>Phe1422-Ser1615<br>Accession # O75197                                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

LRP-5 (low-density lipoprotein receptor-related protein 5) is a 1615 amino acid (aa), ~180-200 kDa type I transmembrane glycoprotein. The 1353 aa extracellular domain (ECD) contains 20 class B LDLR, 4 EGF-like, and 3 class A LDLR repeats. Human LRP-5 aa 745-1097 encompasses class B LDLR repeats #12-17 and EGF-like repeat #3. It shares 94% aa identity with mouse and rat LRP-5, and 70% aa identity with human LRP-6 within corresponding regions. LRP-5 and LRP-6 mediate DKK effects on Wnt signaling. LRP-5 polymorphisms correlate with susceptibility and resistance to osteoporosis.

## PRODUCT SPECIFIC NOTICES

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