

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LRP-5 Intracellular Domain in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with the intracellular domain of recombinant human LRP-6 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 747619
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human LRP-5 Intracellular Domain Phe1422-Ser1615 Accession # O75197
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage 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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