

DESCRIPTION

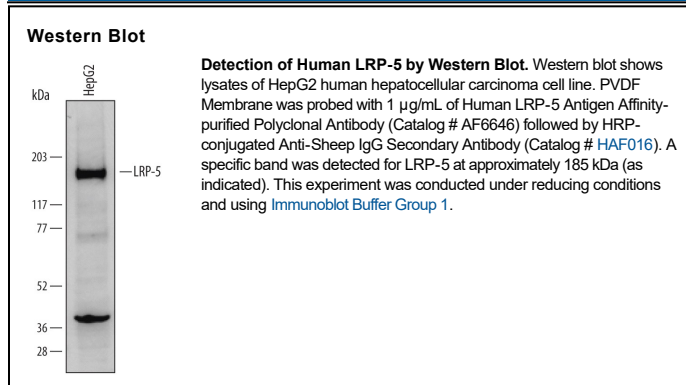
Species Reactivity	Human
Specificity	Detects human LRP-5 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human LRP-5 Phe1422-Ser1615 Accession # O75197
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.