

Human LRP-4 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 741704 Catalog Number: FAB5948R

100 µg

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Human | |
| Specificity | Detects human LRP-4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) LRP-5 or rhLRP-6 is observed. | |
| Source | Monoclonal Mouse IgG ₁ Clone # 741704 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | <i>E. coli</i> -derived recombinant human LRP-4 Gly18-Ser344 Accession # O75096 | |
| Conjugate | Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm | |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. | |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data She (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. | | | | |
| | Recommended Concentration | Sample | | |
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | U-2 OS human osteosarcoma cell line | | |

| 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-4 (Low density lipoprotein-related protein #4; also MEGF7 and LRP13) is a 220-270 kDa glycoprotein, member of the LDLR family of proteins. It is expressed on neurons, oocytes, spermatogonia and skeletal muscle cells and binds multiple ligands including WISE, apoE, MuSK and neuronal Agrin. It serves to negatively regulate Wnt signaling during development and to cluster AChRs at neuromuscular junctions. Mature human LRP-4 is an 1885 amino acid (aa) type I transmembrane glycoprotein. It contains a 1705 aa extracellular domain (ECD) (aa 21-1725) plus a 159 aa cytoplasmic region (aa 1747-1905). In the ECD, there are eight LDLR class A repeats (aa 26-350), two EGF-like repeats (aa 354-434) and 20 LDLR class B repeats that contain an intervening EGF-like domain (aa 480-1610). Over aa 18-344, human LRP-4 shares 97% aa identity with both mouse and rat LRP-4. MAB5948 detects the correct rat band in Western Blot. Immunohistochemistry was not tested in rat samples.

PRODUCT SPECIFIC NOTICES

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