

**DESCRIPTION**

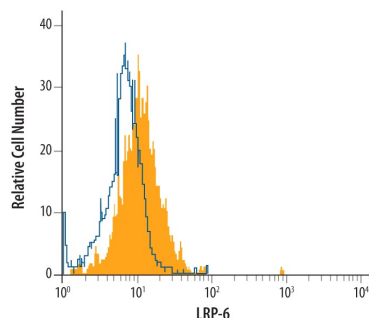
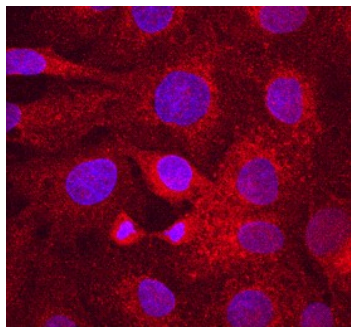
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human LRP-6 in direct ELISAs. In direct ELISAs, approximately 5% cross-reactivity with recombinant mouse (rm) LRP-6 and no cross-reactivity with recombinant human (rh) LRP-1, -4, -5, rhLRP-6 (intracellular domain), or rhLDL R is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 255302
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human LRP-6 Ala20-Pro1368 Accession # O75581
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

<p><b>Flow Cytometry</b></p>  <p><b>Detection of LRP-6 in MDA-MB-231 Human Cell Line by Flow Cytometry.</b> MDA-MB-231 human breast cancer cell line was stained with Mouse Anti-Human LRP-6 Monoclonal Antibody (Catalog # MAB1505, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p><b>Immunocytochemistry</b></p>  <p><b>LRP-6 in DU145 Human Cell Line.</b> LRP-6 was detected in immersion fixed DU145 human prostate carcinoma cell line using Mouse Anti-Human LRP-6 Monoclonal Antibody (Catalog # MAB1505) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

LRP-6 (Low-density lipoprotein receptor-related protein 6) is a 200-210 kDa member of the LDLR family of proteins. It is widely expressed, and serves as a coreceptor for both Wnt and parathyroid hormone. In the Wnt system, LRP-6 associates with select Fzd multipass receptors; in the PTH system, LRP-6 complexes with PTH1R. Mature human LRP-6 is a 1594 amino acid (aa) type I transmembrane glycoprotein. It contains a 1351 aa extracellular region (aa 20-1370) plus a 220 aa cytoplasmic domain (aa 1394-1613). The cytoplasmic domain contains two palmitoylation sites, one ubiquitination residue, and multiple phosphorylation motifs.