



# Hi-Affi™ Recombinant Llama Anti-Human LRP6 Monoclonal antibody, clone L-P2-D07 (DMAB-CDB25501)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	L-P2-D07 interacts with the LRP6P3 barrel through two clusters of polar and electrostatic side-chain interactions, involving ten residues of LRP6P3.
<b>Target</b>	Human LRP6
<b>Immunogen</b>	Human LRP6
<b>Isotype</b>	VHH
<b>Source/Host</b>	Llama
<b>Species Reactivity</b>	Human
<b>Clone</b>	L-P2-D07
<b>Purification</b>	>90% determined by SDS-PAGE
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Suitable for use in IB, ELISA, Inhib, Crystallography. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Liquid
<b>Concentration</b>	lot specific
<b>Size</b>	200 µg, 1 mg

<b>Buffer</b>	PBS (endotoxin < 1EU/mg, lower endotoxin levels may also be offered upon request)
<b>Preservative</b>	None
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles.
<b>Ship</b>	Dry ice

## BACKGROUND

<b>Introduction</b>	Low-density lipoprotein receptor-related protein 6 is a protein that in humans is encoded by the LRP6 gene. LRP6 is a key component of the LRP5/LRP6/Frizzled co-receptor group that is involved in canonical Wnt pathway. LRP6 is a transmembrane low-density lipoprotein receptor that shares a similar structure with LRP5. In each protein, about 85% of its 1600-amino-acid length is extracellular. Each has four YWTD $\beta$ -propeller motifs at the amino terminal end that alternate with four epidermal growth factor (EGF)-like repeats, followed by three LDLR type A repeats. Most extracellular ligands bind to LRP5 and LRP6 at the $\beta$ -propellers. Each protein has a single-pass, 22-amino-acid transmembrane helix followed by a 207-amino-acid segment that is internal to the cell.
<b>Keywords</b>	LRP6; LRP-6; low density lipoprotein receptor-related protein 6; ADCAD2