

# LRP-5/6 Monoclonal Antibody

**CATALOG #:** 3801-100

**LOT #:** \_\_\_\_\_

**HOST:** Mouse

**ISOTYPE:** IgG<sub>2bκ</sub>

**CLONE:** 1A12

**IMMUNOGEN:**

Synthetic peptide derived from human LRP-6. These residues are completely conserved between human and mouse and between LRP-5 and LRP-6.

**SPECIES REACTIVITY:** human, mouse

**FORMULATION:**

100 µg (1 mg/ml) purified antibody in 10 mM Tris-glycine (pH 7.0), 0.15 M NaCl, 25% glycerol, 0.5% BSA, and 0.01% sodium azide.

**STORAGE CONDITIONS:**

Store at -20°C. For long-term storage, aliquot and refreeze at -70°C. Avoid repeated freeze/thaw cycles.

**DESCRIPTION:**

LDL-related proteins, LRP-5 and LRP-6, are members of the LDL receptor superfamily, which were found to be involved in the canonical Wnt signaling pathway. Mammalian LRP-6 was shown to bind to Wnt-1 and enhance Wnt-induced developmental processes in *Xenopus* embryos. Mice lacking LRP-6 exhibited developmental defects that are similar to those caused by deficiencies in various Wnt proteins. Recent work also shows that Wnt proteins induce the binding of LRP-5 to Axin, leading Axin degradation and β-catenin stabilization.

**SPECIFICITY:** Detects full length and a proteolytic fragment of LRP-6.

**APPLICATIONS AND USAGE:**

Western blot analysis (1-2 µg/ml). However, the optimal conditions should be determined individually.

**REFERENCES:** Li, L., *et al.* (2002) *J. Biol. Chem.* 277:5977-5981.

**NOTE:** For research use only! Not to be used in human.

**RELATED PRODUCTS:**

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