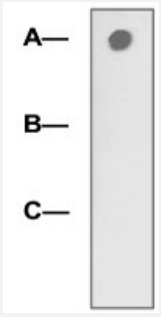
# LRP5 (phospho T1492) polyclonal antibody

Catalog # PAB12631 Size 100 ug

## Applications


### Western Blot (Transfected lysate)

The cell lysate derived from conditioned LRP5 transfected HEK293 was immunoprobed by LRP5 (phospho T1492) polyclonal antibody (Cat # PAB12631) at 1:500 dilution. An immunoreactive band is observed around ~175kDa (lane 1). This band is abolished by pre-incubation with immunizing peptide (lane 2).




### Dot Blot (Peptide)

1 µg peptide was blot onto NC membrane (A: LRP5 (pT1492); B: LRP5 (non-phospho); C: Non-related phosphopeptide) was blotted by LRP5 (phospho T1492) polyclonal antibody (Cat # PAB12631) at 1:2000 dilution.

## Specification

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| **Product Description** | Rabbit polyclonal antibody raised against synthetic phosphopeptide of LRP5. |
| **Immunogen** | Synthetic phosphopeptide corresponding to epitope KATLY surrounding T1492 of human LRP5. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 175 |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |

| | |
|---|---|
| **Recommend Usage** | Western Blot (0.1-1 ug/mL)<br>ELISA (0.01-0.1 ug/mL)<br>Immunoprecipitation (2-5 ug/mL)<br>Immunohistochemistry (2-5 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In TBS, pH 7.2 (BSA, 10% Proclin300) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C or -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

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- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

- Dot Blot (Peptide)

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## Gene Info — LRP5

| | |
|---|---|
| **Entrez GeneID** | 4041 |
| **Gene Name** | LRP5 |
| **Gene Alias** | BMND1, EVR1, EVR4, HBM, LR3, LRP7, OPPG, OPS, OPTA1, VBCH2 |
| **Gene Description** | low density lipoprotein receptor-related protein 5 |
| **Omim ID** | 144750 166710 259770 601813 601884 603506 607634 607636 |
| **Gene Ontology** | Hyperlink |
| **Other Designations** | exudative vitreoretinopathy 1\|low density lipoprotein receptor-related protein 7\|osteoporosis pseu doglioma syndrome |

## Publication Reference

- Aberrantly activated Wnt/β-catenin pathway co-receptors LRP5 and LRP6 regulate osteoblast differentiation in the developing coronal sutures of an Apert syndrome (Fgfr2 S252W /+ ) mouse model.

  Nay Myo Min Swe, Yukiho Kobayashi, Hiroyuki Kamimoto, Keiji Moriyama.

  Developmental Dynamics 2021 Mar; 250(3):465.

  Application: IHC, Mouse, Mouse osteogenic fronts

- LGR4 acts as a key receptor for R-spondin 2 to promote osteogenesis through Wnt signaling pathway.

  Zhu C, Zheng XF, Yang YH, Li B, Wang YR, Jiang SD, Jiang LS.

  Cellular Signalling 2016 Aug; 28(8):989.

  Application: WB-Ce, WB-Tr, Mouse, MC3T3-E1 cells

- Astragaloside IV Inhibits the Up-Regulation of Wnt/β-Catenin Signaling in Rats with Unilateral Ureteral Obstruction.

  Wang L, Chi YF, Yuan ZT, Zhou WC, Yin PH, Zhang XM, Peng W.

  Cellular Physiology and Biochemistry 2014 Apr; 33(5):1316.

  Application: WB-Ti, Rat, Kidney

- Casein kinase 1 gamma couples Wnt receptor activation to cytoplasmic signal transduction.

  Davidson G, Wu W, Shen J, Bilic J, Fenger U, Stannek P, Glinka A, Niehrs C.

  Nature 2005 Dec; 438(7069):867.

## Pathway

- Wnt signaling pathway

## Disease

- Alzheimer disease
- Arthritis
- Atherosclerosis
- Body Weight

- Calcinosis
- Cardiovascular Diseases
- Cerebral Hemorrhage
- Coronary Artery Disease
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Femoral Neck Fractures
- Fractures
- Genetic Predisposition to Disease
- Glioma
- Glucose Intolerance
- Hip Fractures
- Hypercholesterolemia
- Hypertension
- Intracranial Hemorrhages
- Kidney Failure
- Lung Neoplasms
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoarthritis
- Osteonecrosis
- Osteoporosis
- Polycystic Ovary Syndrome

- Pulmonary Disease
- Spinal Fractures
- Spondylarthritis
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Urinary Bladder Neoplasms
- Vitreoretinopathy
- Werner syndrome