

Rabbit LRP5 Polyclonal Antibody | anti-LRP5 antibody

LRP5 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36795	Rabbit	Human, Mouse, Rat	Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot

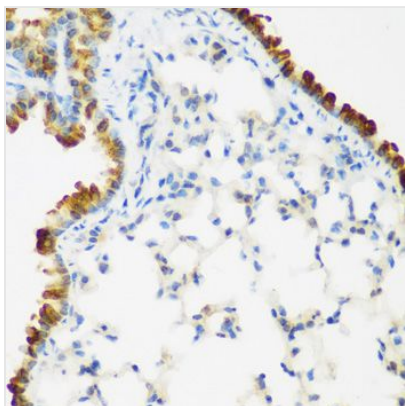
PRODUCT SYNONYMS

LRP5; Polyclonal Antibody; LRP5 Polyclonal Antibody; LRP5 ; BMND1; EVR1; EVR4; HBM; LR3; LRP7; OPPG; OPS; OPTA1; VBCH2;; anti-LRP5 antibody

PRODUCT SPECIFICATIONS

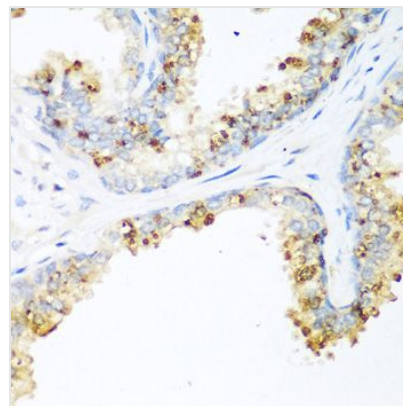
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Sequence Length	1615
Applicable Applications for anti-LRP5 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic -peptide of human LRP5
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze / thaw cycles

IMAGES



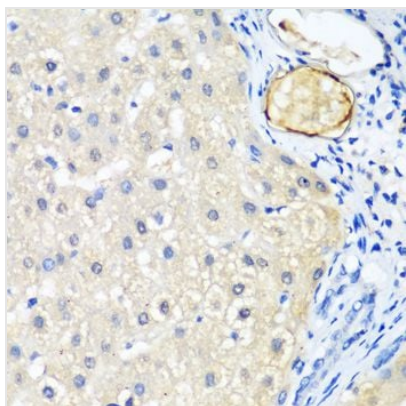
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse lung using LRP5 antibody at dilution of 1:200 (40x lens).



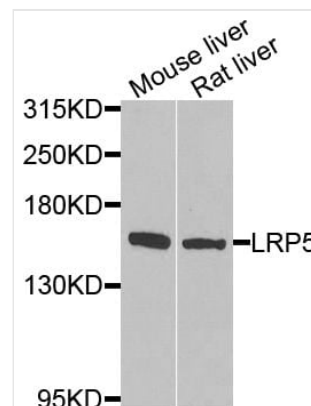
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human prostate using LRP5 antibody at dilution of 1:200 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver using LRP5 antibody at dilution of 1:200 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using LRP5 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-LRP5 antibody

LRP5 and LRP6 are singlepass transmembrane proteins belonging to the lowdensity lipoprotein receptor (LDLR)related protein family. Unlike other members of the LDLR family, LRP5 and LRP6 have four EGF and three LDLR repeats in the extracellular domain, and prolinerich motifs in the cytoplasmic domain (1). They function as coreceptors for Wnt and are required for the canonical Wnt/betacatenin signaling pathway (2,3). LRP5 and LRP6 are highly homologous and have redundant roles during development (4,5). The activity of LRP5 and LRP6 can be inhibited by the binding of some members of the Dickkopf (DKK) family of proteins (6,7). Upon stimulation with Wnt, LRP6 is phosphorylated at multiple sites including Thr1479, Ser1490, and Thr1493 by kinases such as GSK-3 and CK1 (8-10). Phosphorylated LRP6 recruits axin to the membrane and presumably activates betacatenin signaling (8-10). LRP5 is involved in the regulation of bone homeostasis. Mutations and polymorphisms in LRP5 are associated with bone diseases like osteoporosis pseudoglioma syndrome and high bone mass disorders (11-13). In addition, mutations in LRP5 are found in patients with hyperparathyroid tumor and breast cancer (14,15).

References

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15. Björklund, P. et al. (2009) PLoS One 4, e4243.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119709832
NCBI GeneID	4041
NCBI Accession #	NP_002326.2
NCBI GenBank Nucleotide #	NM_002335.2
UniProt Accession #	O75197; Q96TD6; Q9UES7; Q9UP66
Molecular Weight	179kDa
NCBI Official Full Name	low-density lipoprotein receptor-related protein 5
NCBI Official Synonym Full Names	low density lipoprotein receptor-related protein 5
NCBI Official Symbol	LRP5
NCBI Official Synonym Symbols	HBM; LR3; OPS; EVR1; EVR4; LRP7; OPPG; BMND1; OPTA1; VBCH2

NCBI Protein Information	low-density lipoprotein receptor-related protein 5; LRP-5; low density lipoprotein receptor-related protein 7
UniProt Protein Name	Low-density lipoprotein receptor-related protein 5
UniProt Gene Name	LRP5
UniProt Synonym Gene Names	LR3; LRP7; LRP-5
UniProt Entry Name	LRP5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lrp5-antibody-immunoprecipitation-immunofluorescence-immunohistochemistry-western-blot-elisa/36795>