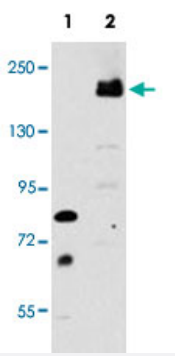
LRP6 polyclonal antibody

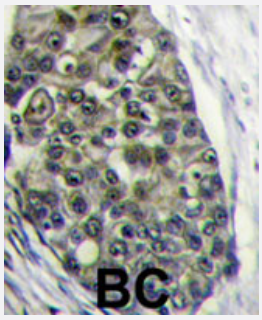
Catalog # PAB4736 Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of LRP6 (arrow) using rabbit LRP6 polyclonal antibody (Cat # PAB4736). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the LRP6 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with LRP6 polyclonal antibody (Cat # PAB4736) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of LRP6.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human LRP6.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

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Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — LRP6

Entrez GeneID	4040
Protein Accession#	NP_002327;O75581
Gene Name	LRP6
Gene Alias	ADCAD2, FLJ90062, FLJ90421
Gene Description	low density lipoprotein receptor-related protein 6
Omim ID	603507 610947
Gene Ontology	Hyperlink

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Gene Summary	The LRP6 gene encodes a member of the low density lipoprotein receptor (LDLR) gene family, which consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. LDLR proteins are comprised of the same basic structural motifs: an extracellular domain that contains LDLR binding repeats and EGF repeats with associated spacer domains containing the YWTD motif; a single transmembrane-spanning domain; and a C-terminal cytoplasmic domain that generally contains at least 1 copy of the NPXY motif (Brown et al., 1998 [PubMed 9704021]). LRP6 and LRP5 (MIM 603506) function as coreceptors for WNT (MIM 164820) ligands and thus play a role in WNT signaling, which is important in a wide variety of biologic processes during pre- and postnatal life in invertebrates and vertebrates (Kokubu et al., 2004 [PubMed 15469977]).[supplied by OMIM
Other Designations	low density lipoprotein-related protein 6

Publication Reference

- A novel mechanism for Wnt activation of canonical signaling through the LRP6 receptor.

  Liu G, Bafico A, Harris VK, Aaronson SA.

  Molecular and Cellular Biology 2003 Aug; 23(16):5825.

- LDL-receptor-related proteins in Wnt signal transduction.

  Tamai K, Semenov M, Kato Y, Spokony R, Liu C, Katsuyama Y, Hess F, Saint-Jeannet JP, He X.

  Nature 2000 Sep; 407(6803):530.

- Isolation and characterization of LRP6, a novel member of the low density lipoprotein receptor gene family.

  Brown SD, Twells RC, Hey PJ, Cox RD, Levy ER, Soderman AR, Metzker ML, Caskey CT, Todd JA, Hess JF.

  Biochemical and Biophysical Research Communications 1998 Jul; 248(3):879.

Pathway

- Wnt signaling pathway

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Coloboma

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- Coronary Artery Disease
- Diabetes Mellitus
- Disease Progression
- Dyslipidemias
- Edema
- Femoral Neck Fractures
- Fractures
- Genetic Predisposition to Disease
- Hip Fractures
- Lactose Intolerance
- Lung Neoplasms
- Macular Degeneration
- Microphthalmos
- Osteoarthritis
- Osteoporosis
- Pulmonary Disease
- Spinal Fractures
- Urinary Bladder Neoplasms
- Vision
- Werner syndrome

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