Rabbit anti-Human LRP8 Polyclonal Antibody | anti-LRP8 antibody

LRP8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325418	**Rabbit**	**Human**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

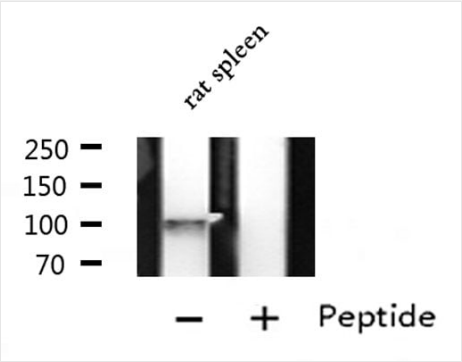
PRODUCT SYNONYMS

LRP8; Polyclonal Antibody; LRP8 Antibody; APOER2; Apolipoprotein E receptor 2; low density lipoprotein receptor-related protein 8; Low-density lipoprotein receptor-related protein 8; LRP-8; LRP8_HUMAN; anti-LRP8 antibody

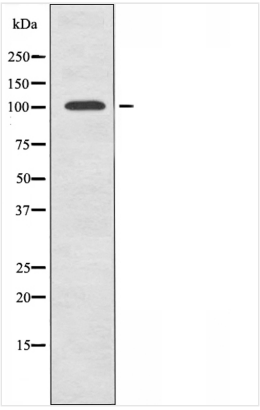
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	LRP8 antibody detects endogenous levels of total LRP8
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	904
Applicable Applications for anti-LRP8 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane. Secreted. Isoforms that contain the exon coding for a furin-type cleavage site are proteolytically processed, leading to a secreted receptor fragment.
Tissue Specificity	Expressed mainly in brain and placenta. Also expressed in platelets and megakaryocytic cells. Not expressed in the liver.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog**
Similarity	Pig (82%), Bovine (82%), Horse (91%), Sheep (82%), Rabbit (91%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

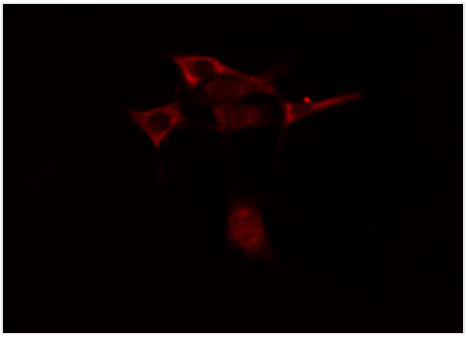
IMAGES



WB (Western Blot)
Western blot analysis of extracts from Rat spleen lysate, using LRP8 antibody.



WB (Western Blot)
Western blot analysis of extracts from Jurkat cells, using LRP8 antibody.



IF (Immunofluorescence)
AAA325418 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-LRP8 antibody	Function: Cell surface receptor for Reelin (RELN) and apolipoprotein E (apoE)-containing ligands. LRP8 participates in transmitting the extracellular Reelin signal to intracellular signaling processes, by binding to DAB1 on its cytoplasmic tail. Reelin acts via both the VLDL receptor (VLDLR) and LRP8 to regulate DAB1 tyrosine phosphorylation and microtubule function in neurons. LRP8 has higher affinity for Reelin than VLDLR. LRP8 is thus a key component of the Reelin pathway which governs neuronal layering of the forebrain during embryonic brain development. Binds the endoplasmic reticulum resident receptor-associated protein (RAP). Binds dimers of beta 2-glycoprotein I and may be involved in the suppression of platelet aggregation in the vasculature. Highly expressed in the initial segment of the epididymis, where it affects the functional expression of clusterin and phospholipid hydroperoxide glutathione peroxidase (PHGPx), two proteins required for sperm maturation. May also function as an endocytic receptor. Not required for endocytic uptake of SEPP1 in the kidney which is mediated by LRP2 (By similarity). Subunit Structure: Reelin associates with two or more receptor molecules. Interacts with DAB1 and JNK-interacting proteins. Interacts with SNX17 (By similarity). Interacts with PCSK9. Post-translational Modifications: O-glycosylated. Some alternatively spliced isoforms lack the O-linked sugar domain (By similarity). Undergoes sequential, furin and gamma-secretase dependent, proteolytic processing, resulting in the extracellular release of the entire ligand-binding domain as a soluble polypeptide and in the intracellular domain (ICD) release into the cytoplasm. The gamma-secretase-dependent proteolytical processing occurs after the bulk of the extracellular domain has been shed, in a furin-dependent manner, in alternatively spliced isoforms carrying the furin cleavage site. Hypoglycosylation (mainly hypo-O-glycosylation) leads to increased extracellular cleavage, which in turn results in accelerating release of the intracellular domain (ICD) by the gamma-secretase. The resulting receptor fragment is able to inhibit Reelin signaling and in particular the Reelin-induced DAB1 phosphorylation (By similarity). Tyrosine phosphorylated upon apoE binding. Ubiquitinated by MYLIP leading to degradation. Similarity: The cytoplasmic domain is involved in the binding of DAB1 and in the recruitment of JNK-interacting proteins. Isoforms, which lack part of the cytoplasmic domain, are unable to recruit members of the family of JNK interacting proteins (JIP) to the cytoplasmic tail (By similarity). Belongs to the LDLR family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	65301119
NCBI GeneID	7804
NCBI Accession #	NP_001018064.1
NCBI GenBank Nucleotide #	NM_001018054.2
UniProt Accession #	Q14114; O14968; Q86V27; Q99876; Q9BR78; B1AMT6; B1AMT7; B1AMT8
Molecular Weight	Observed: 100 kD Predicted: 106 kDa
NCBI Official Full Name	low-density lipoprotein receptor-related protein 8 isoform 4
NCBI Official Synonym Full Names	LDL receptor related protein 8
NCBI Official Symbol	LRP8
NCBI Official Synonym Symbols	MCI1; LRP-8; APOER2; HSZ75190
NCBI Protein Information	low-density lipoprotein receptor-related protein 8
UniProt Protein Name	Low-density lipoprotein receptor-related protein 8
UniProt Gene Name	**LRP8**
UniProt Synonym Gene Names	APOER2; LRP-8

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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