Product Datasheet

LRP8 Antibody

Catalog No: #35302

Package Size: #35302-1 50ul #35302-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

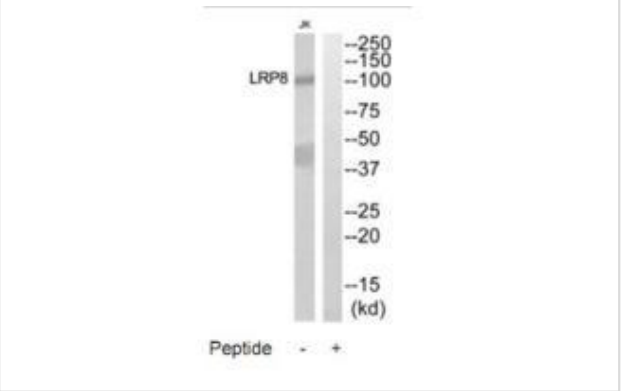
Description

Product Name	LRP8 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total LRP8 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human LRP8.
Target Name	LRP8
Other Names	Low-density lipoprotein receptor-related protein 8; Apolipoprotein E receptor 2; APOER2;
Accession No.	Swiss-Prot: Q14114NCBI Gene ID: 55911
Uniprot	Q14114
GeneID	7804;;
SDS-PAGE MW	100kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from Jurkat cells, using LRP8 antibody #35302.

Background

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.

Bentley D.R., Nature 441:315-321(2006).
Owen J.S., FEBS Lett. 540:181-187(2003).
Zelcer N., J. Biol. Chem. 285:19720-19726(2010).

Note: This product is for in vitro research use only