

## Low-density lipoprotein receptor-related protein 8

Catalog No: #AP78731



Package Size: #AP78731-1 50ug #AP78731-2 100ug #AP78731-3 1mg

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Low-density lipoprotein receptor-related protein 8
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	52-153AA
Other Names	APOER2, Apolipoprotein E receptor 2
Accession No.	Q14114 Gene name: LRP8
Uniprot	Q14114
GeneID	7804;
Calculated MW	11.22
Tag Info	His
Formulation	50mM NaH <sub>2</sub> PO <sub>4</sub> , 500mM NaCl Buffer with 500mM Imidazole, 10% glycerol (pH 8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.) Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## 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.

## References

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Note: This product is for in vitro research use only