



Anti-LRP8 monoclonal antibody, clone FQS4437 (DCABH-116)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit monoclonal to ApoER2
Antigen Description	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.
Immunogen	Synthetic peptide corresponding to the C terminus of Human ApoER2.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Clone	FQS4437
Conjugate	Unconjugated
Applications	WB, IP
Positive Control	SH-SY5Y, C6, Neuro-2a, Human fetal brain, Mouse brain, and Rat brain lysates

Format	Liquid
Size	100 µl
Buffer	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Preservative	0.1% Sodium Azide
Storage	store at -20°C. Avoid freeze / thaw cycles.
Ship	Shipped at 4°C.

GENE INFORMATION

Gene Name	LRP8 low density lipoprotein receptor-related protein 8, apolipoprotein e receptor [Homo sapiens]
Official Symbol	LRP8
Synonyms	LRP8; low density lipoprotein receptor-related protein 8, apolipoprotein e receptor; low-density lipoprotein receptor-related protein 8; APOER2; ApoE receptor 2; MCI1; LRP-8; HSZ75190;
Entrez Gene ID	7804
Protein Refseq	NP_001018064
UniProt ID	Q14114
Chromosome Location	1p32.3
Pathway	Hemostasis, organism-specific biosystem; Lissencephaly gene (LIS1) in neuronal migration and development, organism-specific biosystem; Platelet homeostasis, organism-specific biosystem; Platelet sensitization by LDL, organism-specific biosystem; Reelin signaling pathway, organism-specific biosystem;
Function	apolipoprotein E binding; calcium ion binding; protein binding; receptor activity; transmembrane signaling receptor activity; very-low-density lipoprotein particle receptor activity;