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Product datasheet for TP526275

Lrp8 (NM_001080926) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse low density lipoprotein receptor-related protein 8, apolipoprotein e receptor (Lrp8), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226275 representing NM_001080926 Red=Cloning site Green=Tags(s) MGRPELGALRPLALLLLLLLQLQHLSAADPLPGGQGPVKECEEDQFRCRNERCIPLVWRCDEDNDCSDNS DEDDCPKRTCADSDFTCDNGHCIPERWKCDGEEECPDGSDESKATCSSEECPAEKLSCGPTSHKCVPASW RCDGEKDCEGGADEAGCPTSAPGPCRENEFQCGDGTCVLAIKRCNQERDCPDGSDEAGCLQESTCEGPRR FQCKSGECVDGGKVCDDQRDCRDWSDEPQKVCGLNECLHNNGGCSHICTDLKIGFECTCPAGFQLLDQKT CGDIDECQDPDACSQICVNYKGYFKCECHPGYEMDTLTKNCKAVAGKSPSLIFTNRHEVRRIDLVKRDYS RLIPMLKNVVALDVEVATNRIYWCDLSYRKIYSAHMDKASIPDEQVVLIDEQLHSPEGLAVDWVHKHIYW TDSGNKTISVATTDGRRRCTLFSRELSEPRAIAVDPLRGFMYWSDWGFQAKIEKAGLNGADRQTLVSDNI EWPNGITLDLLSQRLYWVDSKLHQLSSIDFNGGNRKMLIFSTDFLSHPFGVAVFEDKVFWTDLENEAIFS ANRLNGLEIAILAENLNNPHDIVIFHELKQPKAADACDLSAQPNGGCEYLCLPAPQISSHSPKYTCACPD TMWLGPDMKRCYRAPQSTSTTTLASAMTRTVPATTRAPGTTIHDPTYQNHSTETPSQTAAAPHSVNVPRA PSTSPSTPSPATSNHSQHYGNEGSQMGSTVTAAVIGVIVPIVVIALLCMSGYLIWRNWKRKNTKSMNFDN PVYRKTTEEEEEDELHIGRTAQIGHVYPAAISNYDRPLWAEPCLGETRDLEDPAPALKELFVLPGEPRSQ LHQLPKNPLSELPVVKCKRVALSLEDDGLP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	96.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001074395
Locus ID:	16975
UniProt ID:	F6YZZ8
RefSeq Size:	7296
Cytogenetics:	4 C7
RefSeq ORF:	2610
Synonyms:	4932703M08Rik; AA921429; AI848122; ApoER2; Lr8b
Summary:	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 (PubMed:12695510). May also function as an endocytic receptor. Not required for endocytic uptake of SEPP1 in the kidney which is mediated by LRP2 (PubMed:18174160). Together with its ligand, apolipoprotein E (apoE), may indirectly play a role in the suppression of the innate immune response by controlling the survival of myeloid-derived suppressor cells (PubMed:29336888).[UniProtKB/Swiss-Prot Function]