

Recombinant Human FRMPD4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FRMPD4-2733H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FRMPD4 MS Standard C13 and N15-labeled recombinant protein (NP_055543) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a multi-domain (WW, PDZ, FERM) containing protein. Through its interaction with other proteins (such as PSD-95), it functions as a positive regulator of dendritic spine morphogenesis and density, and is required for the maintenance of excitatory synaptic transmission.
Molecular Mass	144.4 kDa
AA Sequence	MDVFSFVKIAKLSSHRTKSSGWPPPSGTWGLSQVPPYGWEMTANRDGRDYFINHM TQAIPFDDPRLESCQIIPPAPRKVEMRRDPVLGFGFVAGSEKPVVRSVTPGGPSEG KLIPGDQIVMINDEPVSAAPRERVIDLVRSCKEISLLTVIQPYPSPKSAFISAAKKARLK SNPVKVRFSSEEVIINGQVSETVKDNSLLFMPNVLKVYLENGQTKSFRFDCSTSISKDVI LTLQEKLSIKGIEHFSLMLEQRTEGAGTKLLLLHEQETLTQVTQRPSSHKMRCLFRIS FVPKDPIDLLRRDPVAFEYLYVQSCNDVVQERFGPELKYDIALRLAALQMYIATVTTK QTQKISLKYIEKEWGLETFLPSAVLQSMKEKNIKKALSHLVKANQNLVPPGKKLSALQ AKVHYLKFLSDLRLYGGRVFKATLVQAEKRSEVTLLVGPRYGISHVINTKTNLVALLA DFSHVNRIEMFSEEEESLVRVELHVLVDVKPITLLMESSDAMNLACLTAGYYRLLVDSR

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RSIFNMANKKNTATQETGPENKGKHNLGPDWNCIPQMTTFIGEGEQEAQITYIDSK
 QKTVEITDSTMCPKEHRHLYIDNAYSSDGLNQQLSQPGAPCEADYRSLAQRSLTL
 SGPETLKKAQESPRGAKVSFIFGDFALDDGISPPTLGYETLLDEGPPEMLEKQRNLYIG
 SANDMKGLDLTPEAEGIQFVENSIVYANIGDVKSFAEGIEEPPLLDICYAENTDDAE
 DEDEVSCCEEDLVVGEMNQPAIILNLGSSDDIIDLTLSPPEGGDDNEDDFLLRSLNMAI
 AAPPPGFRDSSDEEDSQSQAASFPEDEKEKGSSQLNDEIPVSLIDAVPTSAEGKCEK
 GLDNAVVSTLGALEALSVSEEQQTSDNSGVAILRAYSPSSSDSGNETNSSEMTE
 SELATAQKQSENLSRMFLATHEGYHPLAEEQTEFPASKTPAGGLPPKSSHALAARP
 ATDLPPKVVPKQLLHSDHMEMEPETMETKSVTDYFSKLHMGSVAYSCTSKRKSKL
 ADGEGKAPPNGNTTGKKQQGKTAEEMEEASGKFGTVSSRDSQHLSTFNLERTAF
 RKDSQRWYVATEGGMAEKSGLEAATGKTFPRASGLGAREAEKGKEEGAPDGETSD
 GSGLGQGDRFLTDVTCASSAKDLNPNEDADSSTCDHPSKLPEADESVARLCDYHLA
 KRMSSLQSEGHFSLQSSQGSSVDAGCGTGSSGSACATPVESPLCPSLGKHLIPDAS
 GKGVNIYIPSEERAPGLPNHGATFKELHPQTEGMCPRMTVPALHTAINTPLFGTLRD
 GCHRLPKIKETTVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FRMPD4 FERM and PDZ domain containing 4 [Homo sapiens (human)]

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Official Symbol	FRMPD4
Synonyms	FRMPD4; FERM and PDZ domain containing 4; PDZ domain containing 10, PDZD10, PDZK10; FERM and PDZ domain-containing protein 4; KIAA0316; Preso; PDZ domain containing 10; PDZ domain-containing protein 10; PSD-95-interacting FERM and PDZ domain protein; PSD-95-interacting regulator of spine morphogenesis; PDZD10; PDZK10; MGC142260; MGC142262;
Gene ID	9758
mRNA Refseq	NM_014728
Protein Refseq	NP_055543
MIM	300838
UniProt ID	Q14CM0
SDS-PAGE	