

Product datasheet for **TP301413M**

FZR1 (NM_016263) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human fizzy/cell division cycle 20 related 1 (Drosophila) (FZR1), transcript variant 2, 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC201413 protein sequence
Red=Cloning site **Green**=Tags(s)

MDQDYERRLLRQIVIQNENTMPRVTEMRRTLTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKS
PSQNRKAKDATSDNGKDGGLAYSALLKNELLGAGIEKVQDPQTEDRRLQPSTPEKKGLFTYSLSTKRSSPD
DGNDVSPYSLSPVSNKSQKLLRSPRPTRKISKIPFKVLDAPQLQDDFYLNLDVWSSLNVLVSVGLGTCVY
LWSACTSQVTRLCDLSVEGDSVTSVGVWSEGRNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARV GALAWN
AEQLSSGSRDRMILQRDIRTPPLQSERRLQGHRQEVCGLKWSTDHQLLASGGNDNKL VWNHSSLSPVQQ
YTEHLAAVKAIWSPHQHGLLASGGGTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGY
SQNQILVWKYPSLTQVAKLTGHSYRVLYLAMSPDGEAIVTGAGDETLRFWNVFSKTRSTKESVSVLNLFT
RIR

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 54.6 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
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.



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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_057347
Locus ID:	51343
UniProt ID:	Q9UM11
RefSeq Size:	3615
Cytogenetics:	19p13.3
RefSeq ORF:	1479
Synonyms:	CDC20C; CDH1; FZR; FZR2; HCDH; HCDH1
Summary:	Substrate-specific adapter for the anaphase promoting complex/cyclosome (APC/C) E3 ubiquitin-protein ligase complex. Associates with the APC/C in late mitosis, in replacement of CDC20, and activates the APC/C during anaphase and telophase. The APC/C remains active in degrading substrates to ensure that positive regulators of the cell cycle do not accumulate prematurely. At the G1/S transition FZR1 is phosphorylated, leading to its dissociation from the APC/C. Following DNA damage, it is required for the G2 DNA damage checkpoint: its dephosphorylation and reassociation with the APC/C leads to the ubiquitination of PLK1, preventing entry into mitosis. Acts as an adapter for APC/C to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation. Through the regulation of RBBP8/CtIP protein turnover, may play a role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (PubMed:25349192).[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis

Product images:



Coomassie blue staining of purified FZR1 protein (Cat# [TP301413]). The protein was produced from HEK293T cells transfected with FZR1 cDNA clone (Cat# [RC201413]) using MegaTran 2.0 (Cat# [TT210002]).