

Product datasheet for PH301413

OriGene Technologies, Inc.

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FZR1 (NM 016263) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: FZR1 MS Standard C13 and N15-labeled recombinant protein (NP_057347)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC201413

or AA Sequence: Predicted MW:

54.8 kDa

Protein Sequence: >RC201413 protein sequence

Red=Cloning site Green=Tags(s)

MDQDYERRLLRQIVIQNENTMPRVTEMRRTLTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKS PSQNRKAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLQPSTPEKKGLFTYSLSTKRSSPD DGNDVSPYSLSPVSNKSQKLLRSPRKPTRKISKIPFKVLDAPELQDDFYLNLVDWSSLNVLSVGLGTCVY LWSACTSQVTRLCDLSVEGDSVTSVGWSERGNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARVGALAWN AEQLSSGSRDRMILQRDIRTPPLQSERRLQGHRQEVCGLKWSTDHQLLASGGNDNKLLVWNHSSLSPVQQ YTEHLAAVKAIAWSPHQHGLLASGGGTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGY SQNQILVWKYPSLTQVAKLTGHSYRVLYLAMSPDGEAIVTGAGDETLRFWNVFSKTRSTKESVSVLNLFT

RIR

 ${\color{red} \textbf{SGPTRTRPL}} \textbf{EQKLISEEDLAANDILDYKDDDDKV}$

Tag: C-Myc/DDK

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

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

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

RefSeq: NP 057347

RefSeq Size: 3615 RefSeq ORF: 1479





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Synonyms: CDC20C; CDH1; FZR; FZR2; HCDH; HCDH1

 Locus ID:
 51343

 UniProt ID:
 Q9UM11

 Cytogenetics:
 19p13.3

Summary: Substrate-specific adapter for the anaphase promoting complex/cyclosome (APC/C) E3

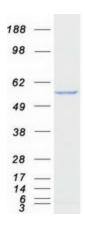
ubiquitin-protein ligase complex. Associates with the APC/C in late mitosis, in replacement of CDC20, and activates the APC/C during anaphase and telophase. The APC/C remains active in degrading substrates to ensure that positive regulators of the cell cycle do not accumulate prematurely. At the G1/S 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]).