

Recombinant Mouse Fzr1 Protein, Myc/DDK-tagged

Cat. No. Fzr1-3120M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length fizzy and cell division cycle 20 related 1 (Fzr1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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).
Molecular Mass	55.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Fzr1 fizzy and cell division cycle 20 related 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Fzr1
Synonyms	FZR1; fizzy/cell division cycle 20 related 1 (<i>Drosophila</i>); fizzy-related protein homolog; cdh1/Hct1 homolog; cell division cycle 20 related 1; FZR; Fyr; Cdh1; FZR2; HCDH; HCDH1; AW108046
Gene ID	56371
mRNA Refseq	NM_019757
Protein Refseq	NP_062731
UniProt ID	Q9R1K5

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