

Datasheet for ABIN7565188
FZR1 Protein (AA 1-493) (His tag)



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Overview

Quantity:	1 mg
Target:	FZR1
Protein Characteristics:	AA 1-493
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FZR1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Fzr1 Protein expressed in mammalian cells.
Sequence:	<p>MDQDYERRLL RQIIQNENT VPCVSEMRRT LTPANSPVSS PSKHGDRFIP SRAGANWSVN FHRINENEKS PSQNRKAKDA TSDNGKDGLA YSALLKNELL GAGIEKVQDP QTEDRRLQPS TPEHKGLFTY SLSSKRSSPD DGNDVSPYSL SPVSNKSQKL LRSPRKPTRK ISKIPFKVLD APELQDDFYI NLVDWSSLNV LSVGLGTCVY LWSACTSQVT RLCDLSVEGD SVTSVGWSE GNLVAVGTHK GFVQIWDAAA GKKLSMLEGH TARVGALAWN ADQLSSGSRD RMILQRDIRT PPLQSERRLQ GHRQEVCGLK WSTDHQLLAS GGNDNKLLVW NHSSLSPVQY YTEHLAAVKA IAWSPHQHGL LASGGGTADR CIRFWNTLTG QPLQCIDTGS QVCNLAWSKH ANELVSTHGY SQNQILVWKY PSLTQVAKLT GHSYRVLYLA MSPDGEAIVT GAGDETLRFW NVFSKTRSTK ESVSVLNLFT RIR</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Characteristics:	<div>Key Benefits:</div> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	FZR1
Alternative Name:	Fzr1 (FZR1 Products)
Background:	<p>Fizzy-related protein homolog (Fzr) (Cdh1/Hct1 homolog),FUNCTION: 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). {ECO:0000250 UniProtKB:Q9UM11}.</p>

Target Details

Molecular Weight:	54.7 kDa
UniProt:	Q9R1K5
Pathways:	DNA Replication, Synthesis of DNA

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months