

Recombinant human Wee1 protein (Tagged) ab271795

2 Images

Description

Product name	Recombinant human Wee1 protein (Tagged)		
Biological activity	Specific Activity: ≥42 pmol/min/μg Assay Conditions: Assay was done in Kinase buffer containing 1 mM DTT using Poly-(Lys4:Tyr) substrate (0.2 mg/ml) and 20 μM ATP. Reaction was done at 30°C for 45 min. Amount of ATP transferred was calculated using Kinase-Glo reagent.		
Purity	≥= 75 % SDS-PAGE. Affinity purified.		
Expression system	Baculovirus infected Sf9 cells		
Accession	<u>P30291</u>		
Protein length	Protein fragment		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	DTEKSGKRE FDVRQTPQVN INFPTPDSLL LHSSGQCRRR KRTYWNDSCG EDMEASDYEL EDETTPAKRI TITESNMKSR YTTEFHELEK IGSGEFGSVF KCVKRLDGC IYAIKRSKKPL AGSVDEQNAL REVYAHAVLG QHSHVVRYS AWAEDDHMLI QNEYCNGGSL ADAISENYRI MSYFKEAELK DLLLQVGRGL RYHSMSLVH MDIKPSNIFISRTSIPNAAS EEGDEDDWAS NKVMFKIGDL GHVTRISSPQ VEEGDSRFLA NEVLQENYTH LPKADIFALA LTVVCAAGAE PLPRNGDQWH EIRQGRLPRI PQVLSQEFTE LLKVMHPDP ERRPSAMALV KHSVLLSASR KSAEQLRIEL NAEKFKNSLL QKELKKAQMA KAAAEERALF TDRMATRSTT QSNRTSRLIG KKMNRSVSLT IY		
Predicted molecular weight	75 kDa including tags		
Amino acids	215 to 646		
Tags	GST tag N-Terminus		
Additional sequence information	N-terminal GST-Thrombin-Tag		

Specifications

Our **Abpromise guarantee** covers the use of **ab271795** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	Functional Studies
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 8.00
	Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 20% Glycerol (glycerin, glycerine), 0.06% Glutathione
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

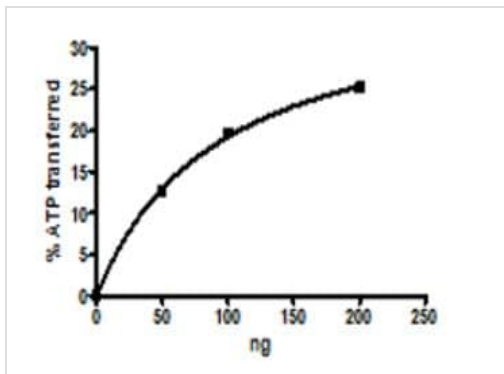
Function	Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated. A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation.
Sequence similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WEE1 subfamily. Contains 1 protein kinase domain.
Post-translational modifications	Phosphorylated during M and G1 phases. Also autophosphorylated. Ubiquitinated and degraded at the onset of G2/M phase.
Cellular localization	Nucleus.

Images



SDS-PAGE analysis of ab271795.

SDS-PAGE - Recombinant Human Wee1 protein
(Tagged) (ab271795)



Specific activity of ab271795 was ≥ 42 pmol/min/ μ g.

Functional Studies - Recombinant Human Wee1
protein (Tagged) (ab271795)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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