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Datasheet for ABIN2713979 CHEK2 Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)



2

Images

Overview	
Quantity:	20 µg
Target:	CHEK2
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CHEK2 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Functional Studies (Func), Antibody Production (AbP), Protein Interaction (PI), Standard (STD)
Product Details	
Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	 Recombinant human CHK2 (transcript variant 1) protein expressed in HEK293 cells. Produced with end-sequenced ORF clone Tested for bioactivity.
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	CHEK2 activity verified in a biochemical assay:,CHEK2 activity verified in a biochemical assay:
Target Details	

Target:

CHEK2

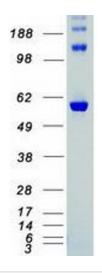
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Alternative Name:	Chk2 (CHEK2 Products)
Background:	In response to DNA damage and replication blocks, cell cycle progression is halted through the
	control of critical cell cycle regulators. The protein encoded by this gene is a cell cycle
	checkpoint regulator and putative tumor suppressor. It contains a forkhead-associated protein
	interaction domain essential for activation in response to DNA damage and is rapidly
	phosphorylated in response to replication blocks and DNA damage. When activated, the
	encoded protein is known to inhibit CDC25C phosphatase, preventing entry into mitosis, and
	has been shown to stabilize the tumor suppressor protein p53, leading to cell cycle arrest in G1
	In addition, this protein interacts with and phosphorylates BRCA1, allowing BRCA1 to restore
	survival after DNA damage. Mutations in this gene have been linked with Li-Fraumeni
	syndrome, a highly penetrant familial cancer phenotype usually associated with inherited
	mutations in TP53. Also, mutations in this gene are thought to confer a predisposition to
	sarcomas, breast cancer, and brain tumors. This nuclear protein is a member of the CDS1
	subfamily of serine/threonine protein kinases. Several transcript variants encoding different
	isoforms have been found for this gene.
Molecular Weight:	60.7 kDa
NCBI Accession:	NP_009125
Pathways:	p53 Signaling, Apoptosis, Cell Division Cycle
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
	Protein-protein interaction
	In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only
Handling	
Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

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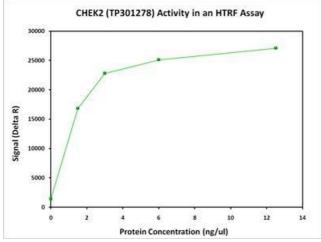
Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Images



Western Blotting

Image 1. Validation with Western Blot



Activity Assay

Image 2. Bioactivity measured with Activity Assay

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