abcam

Product datasheet

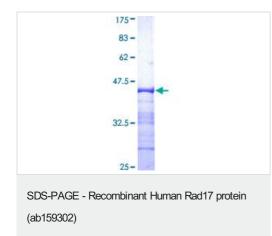
Recombinant Human Rad17 protein ab159302

1 Image

Description		
Product name	Recombinant Human Rad17 protein	
Expression system	Wheat germ	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence		MNQVTDWVDPSFDDFLECSGVSTITATSLGVNNSSHRRK NGPSTLESSRF PARKRGNLSSLEQIYGLENSKEYLSENEPWVDKYKPETQH ELAVHKKKIE EVETWLKAQV
Amino acids	1 to 110	
Tags	GST tag N-Terminus	
Specifications		
Our Abpromise guarantee c	covers the use of ab159302 in the	following tested applications.
The application notes include	recommended starting dilutions; o	ptimal dilutions/concentrations should be determined by the end user.
Applications	Western blot	
	ELISA	
Form	Liquid	
Additional notes		
Preparation and Storage		
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.	
	pH: 8.00	
	Constituents: 0.31% Gluta	athione, 0.79% Tris HCI

Function	Essential for sustained cell growth, maintenance of chromosomal stability, and ATR-dependent checkpoint activation upon DNA damage. Has a weak ATPase activity required for binding to chromatin. Participates in the recruitment of the RAD1-RAD9-HUS1 complex onto chromatin, and in CHEK1 activation. May also serve as a sensor of DNA replication progression, and may be involved in homologous recombination.	
Tissue specificity	Overexpressed in various cancer cell lines and in colon carcinoma (at protein level). Isoform 2 and isoform 3 are the most abundant isoforms in non irradiated cells (at protein level). Ubiquitous at low levels. Highly expressed in testis, where it is expressed within the germinal epithelium of the seminiferous tubuli. Weakly expressed in seminomas (testicular tumors).	
Sequence similarities	Belongs to the rad17/RAD24 family.	
Post-translational modifications	Phosphorylated. Phosphorylation on Ser-646 and Ser-656 is cell cycle-regulated, enhanced by genotoxic stress, and required for activation of checkpoint signaling. Phosphorylation is mediated by ATR upon UV or replication arrest, whereas it may be mediated both by ATR and ATM upon ionizing radiation. Phosphorylation on both sites is required for interaction with RAD1 but dispensable for interaction with RFC3 or RFC4.	
Cellular localization	Nucleus. Phosphorylated form redistributes to discrete nuclear foci upon DNA damage.	

Images



ab159302 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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

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