

Recombinant Human RAD18

Cat. No. RAD18-29579TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to aa 332-430 of human RAD18 with a proprietary tag; 36.52 inclusive of tag;
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	The protein encoded by this gene is highly similar to <i>S. cerevisiae</i> DNA damage repair protein Rad18. Yeast Rad18 functions through its interaction with Rad6, which is an ubiquitin-conjugating enzyme required for post-replication repair of damaged DNA. Similar to its yeast counterpart, this protein is able to interact with the human homolog of yeast Rad6 protein through a conserved ring-finger motif. Mutation of this motif results in defective replication of UV-damaged DNA and hypersensitivity to multiple mutagens.
Molecular Weight	36.520kDa
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: (Glutathione is reduced)
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EKEIDEIHSKYRKHKHSEFQLLVDQARKGYKKIAGMSQKTVTITKEDESTTEKLSSVCM GQEDNMTSVTNHFSQSKLDSPEELEPDREEDSSSCIDIQEV
Sequence Similarities	Belongs to the RAD18 family.Contains 1 RING-type zinc finger.Contains 1 SAP domain.Contains 1 UBZ-type zinc finger.

GENE INFORMATION

Gene Name	RAD18 RAD18 homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	RAD18
Synonyms	RAD18; RAD18 homolog (S. cerevisiae); E3 ubiquitin-protein ligase RAD18; RNF73;
Gene ID	56852
mRNA Refseq	NM_020165
Protein Refseq	NP_064550
MIM	605256
Uniprot ID	Q9NS91
Chromosome Location	3p25-p24

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Function

Y-form DNA binding; damaged DNA binding; ligase activity; metal ion binding; protein binding;

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