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 S. cerevisiae 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

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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	EKEIDEIHSKYRKKHKSEFQLLVDQARKGYKKIAGMSQKTVTITKEDESTEKLSSVCMGQEDNMTSVTNHFSQSKLDSPEELEPDREEDSSSCIDIQEV
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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