Recombinant Human RAD23B

Cat. No. RAD23B-29311TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human hHR23b with N terminal proprietary tag, 36.52kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	The protein encoded by this gene is one of two human homologs of Saccharomyces cerevisiae Rad23, a protein involved in the nucleotide excision repair (NER). This protein was found to be a component of the protein complex that specifically complements the NER defect of xeroderma pigmentosum group C (XP-c) cell extracts in vitro. This protein was also shown to interact with, and elevate the nucleotide excision activity of 3-methyladenine-DNA glycosylase (MPG), which suggested a role in DNA damage recognition in base excision repair. This protein contains an N-terminal ubiquitin-like domain, which was reported to interact with 26S proteasome, and thus this protein may be involved in the ubiquitin mediated proteolytic pathway in cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Weight	36.520kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PQLLQQISQHQEHFIQMLNEPVQEAGGQGGGGGGGSGGIAEAGSGHMNYIQVTPQEKEAIERLKALGFPEGLVIQAYFACEKNENLAANFLLQQNFDED
Sequence Similarities	Belongs to the RAD23 family.Contains 1 STI1 domain.Contains 2 UBA domains.Contains 1 ubiquitin-like domain.

GENE INFORMATION

Gene Name	RAD23B RAD23 homolog B (S. cerevisiae) [Homo sapiens]
Official Symbol	RAD23B
Synonyms	RAD23B; RAD23 homolog B (S. cerevisiae); RAD23 (S. cerevisiae) homolog B; UV excision repair protein RAD23 homolog B; HHR23B; HR23B; P58; XP C repair complementing complex 58 kDa; XP C repair complementing protein;
Gene ID	5887
mRNA Refseq	NM_001244713
Protein Refseq	NP_001231642
MIM	600062

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Uniprot ID	P54727
Chromosome Location	9q31.2
Pathway	DNA Damage Recognition in GG-NER, organism-specific biosystem; DNA Repair, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Formation of incision complex in GG-NER, organism-specific biosystem; Global Genomic NER (GG-NER), organism-specific biosystem;
Function	damaged DNA binding; polyubiquitin binding; protein binding; single-stranded DNA binding;

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