

Full-Length

RAD17 (Human) Recombinant Protein (P01)

Catalog # H00005884-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human RAD17 full-length ORF (NP_579919.1, 1 a.a. - 584 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNQHELAVHKKKIEEVETWLKAQVLERQPKQGGSILLITGPPGCGKTTTLKILSKEHGIQVQEWINP
VLPDFQKDDFKGMFNTESFHMFPYQSQIAVFKEFLLRATKYNKLQMLGDDLRTDKKIILVEDLPN
QFYRDSHTLHEVLRKYVRIGRCPLIFIISDSLSGDNNQRLFPKEIQEECSISNISFNPVAPTIMMKFL
NRVTIEANKNGGKITVPDKTSLELLCQGCSGDIRSAINSLQFSSSKGENNLRPRKKGMSLKSDAVL
SKSKRRKKPDRVFENQEVQAIGGKDVSLFLFRALGKILYCKRASLTELDSPRLPSHLSEYERDTLL
VEPEEVVEMSHMPGDLFNLYLHQNYIDFFMEIDIVRASEFLSFADILSGDWNTRSLREYSTSIAT
RGMHNSNKARGYAHCCGGGSSFRPLHKPQWFLINKKYRENCLAAKALFPDFCLPALCLQTQLLP
YLALLTIPMRNQAQISFIQDIGRLPLKRHFGRKMEALTDREHGMDPDSGDEAQLNGGHSAAEESL
GEPTQATVPETWSLPLSQNSASELPASQPQPFSAQGDMEENIIIEDYESDGT

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

92.6

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RAD17

Entrez GeneID[5884](#)**GeneBank Accession#**[NM_133341.1](#)**Protein Accession#**[NP_579919.1](#)**Gene Name**

RAD17

Gene Alias

CCYC, FLJ41520, HRAD17, R24L, RAD17SP, RAD24

Gene Description

RAD17 homolog (S. pombe)

Omim ID[603139](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is highly similar to the gene product of Schizosaccharomyces pombe rad17, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Eight alternatively spliced transcript variants of this gene, which encode for four distinct proteins, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified. [provided by RefSeq]

Other Designations

OTTHUMP00000125189|OTTHUMP00000125190|OTTHUMP00000125192|OTTHUMP00000125193|OTTHUMP00000125194|RAD1 homolog|RAD17 homolog|RF-C activator 1 homolog|Rad 17-like protein|cell cycle checkpoint protein (RAD17)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)