

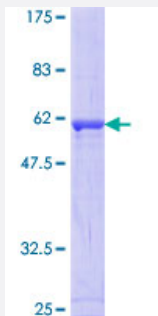
Full-Length

RAD1 (Human) Recombinant Protein (P01)

Catalog # H00005810-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human RAD1 full-length ORF (NP_002844.1, 1 a.a. - 282 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPLLTQQIQDEDDQYSLVASLDNVRNLSTILKAIHFREHATCFATKNGIKVTVENAKCVQANAFIQA
GIFQEFKVQEE SVTFRINLTVLLDCLSI FGSSPMPGTLTALRCYQGYGYPLMLFLEEGGVTVCKI
NTQEPEETLDFDFCSTNVINKIILQSEGLREAFSELDMTSEVLQITMSPDKPYFRLSTFGNAGSSHL
DYPKDSLMEAFHCNQ TQVNRYKISLLKPSTKALVLSCKVSIRTDNRGFLSLQYMIRNEDGQICFV
EYYCCPDDEEVPESSES

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

58.2

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 — RAD1

Entrez GeneID [5810](#)

GeneBank Accession# [NM_002853.3](#)

Protein Accession# [NP_002844.1](#)

Gene Name RAD1

Gene Alias HRAD1, REC1

Gene Description RAD1 homolog (S. pombe)

Omim ID [603153](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a component of a heterotrimeric cell cycle checkpoint complex, known as the 9-1-1 complex, that is activated to stop cell cycle progression in response to DNA damage or incomplete DNA replication. The 9-1-1 complex is recruited by RAD17 to affected sites where it may attract specialized DNA polymerases and other DNA repair effectors. Alternatively spliced transcript variants of this gene have been described. [provided by RefSeq]

Other Designations DNA repair exonuclease REC1|OTTHUMP00000115992|RAD1 homolog|Rad1-like DNA damage checkpoint|cell cycle checkpoint protein Hrad1|checkpoint control protein HRAD1|exonuclease homolog RAD1

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Narcolepsy](#)