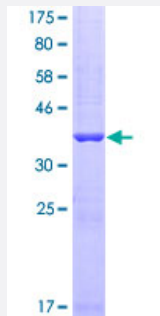


# RRM1 (Human) Recombinant Protein (Q01)

Catalog # H00006240-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human RRM1 partial ORF ( NP_001024, 644 a.a. - 753 a.a.) recombinant protein with GST-tag at N-terminal.      |
| <b>Sequence</b>                      | DLTERGLWHEEMKNQIIACNGSIQSIPEIPDDLKQLYKTVWEISQKTVLKMAAERGAFIDQSQSLNIHIAEPNYGKLTSMHFYGWKQGLKTGMYLRTSPAANPIQFTLN |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                         |
| <b>Theoretical MW (kDa)</b>          | 37.84                                                                                                         |
| <b>Interspecies Antigen Sequence</b> | Mouse (99); Rat (98)                                                                                          |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                         |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                             |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                   |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                      |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                               |
| <b>Note</b>                          | 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 — RRM1

Entrez GeneID [6240](#)

GeneBank Accession# [NM\\_001033](#)

Protein Accession# [NP\\_001024](#)

Gene Name RRM1

Gene Alias R1, RIR1, RR1

Gene Description ribonucleotide reductase M1

Omim ID [180410](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes one of two non-identical subunits that constitute ribonucleoside-diphosphate reductase, an enzyme essential for the production of deoxyribonucleotides prior to DNA synthesis in S phase of dividing cells. It is one of several genes located in the imprinted gene domain of 11 p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region. [provided by RefSeq]

**Other Designations** ribonucleoside-diphosphate reductase M1 chain|ribonucleotide reductase M1 polypeptide|ribonucleotide reductase, R1 subunit|ribonucleotide reductase, large subunit

## Pathway

- [Glutathione metabolism](#)
- [Metabolic pathways](#)

- [Purine metabolism](#)
- [Pyrimidine metabolism](#)

## Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neutropenia](#)
- [Pancreatic Neoplasms](#)