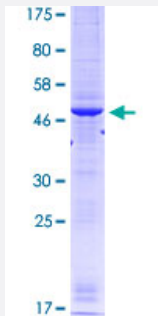


RRM1 (Human) Recombinant Protein (Q02)

Catalog # H00006240-Q02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RRM1 partial ORF (NP_001024.1, 593 a.a. - 792 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	IRNSLLIAPMPTASTAQILGNNESEIPEYTSNIYTRRVLSGEFQVNPHELLKDLTERGLWHEEMKNQIIAC NGSIQSIPEIPDDLKQLYKTVWEISQKTVLKMAAERGAFIDQSQSLNIHIAEPNYGKLTSMHFYGWK QGLKTGMYLRTTPAANPIQFTLNKEKLKDEKVSKEEEEKERNTAAMVCSLENRDECLMCGS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.41
Interspecies Antigen Sequence	Mouse (98); Rat (98)
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 — RRM1

Entrez GeneID [6240](#)

GeneBank Accession# [NM_001033.2](#)

Protein Accession# [NP_001024.1](#)

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](#)