

## Product datasheet for **CF804537**

### RRM1 Mouse Monoclonal Antibody [Clone ID: OTI16A8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI16A8
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 541-792 of human RRM1 (NP_001024) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	89.9 kDa
Gene Name:	ribonucleotide reductase catalytic subunit M1
Database Link:	<a href="#">NP_001024</a> <a href="#">Entrez Gene 20133 Mouse</a> <a href="#">Entrez Gene 685579 Rat</a> <a href="#">Entrez Gene 6240 Human</a> <a href="#">P23921</a>



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**Background:**

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 11p15.5, 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, Jul 2008]

**Synonyms:**

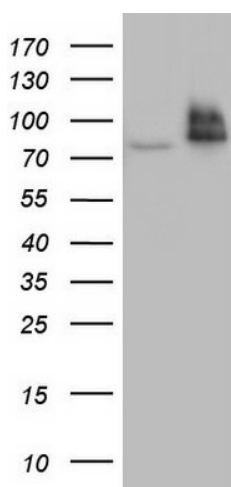
R1; RIR1; RR1

**Protein Families:**

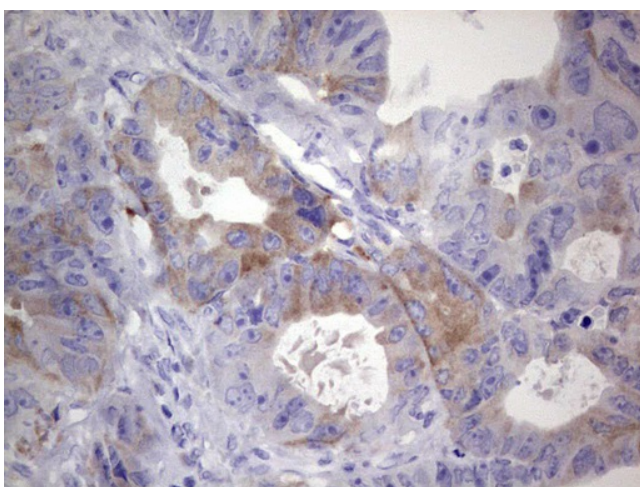
Druggable Genome

**Protein Pathways:**

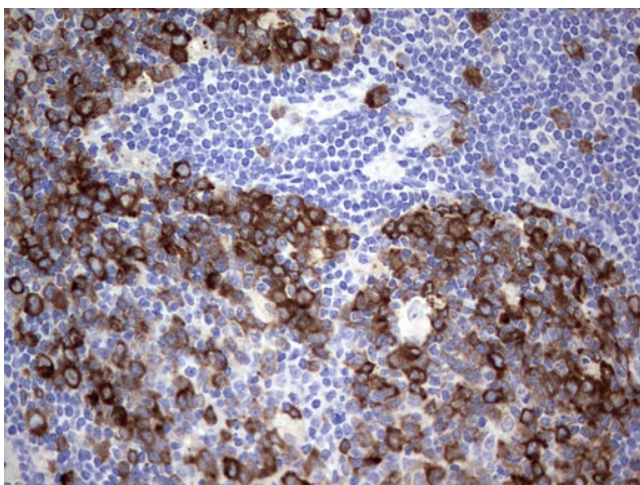
Glutathione metabolism, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY RRM1 ([RC200726], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RRM1. Positive lysates [LY422336] (100ug) and [LC422336] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-RRM1 Mouse monoclonal antibody. ([TA804537]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-RRM1 Mouse monoclonal antibody. ([TA804537]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)