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Product datasheet for UM800059CF

RRM1 Mouse Monoclonal Antibody [Clone ID: UMAB165]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB165
Applications:	IF, IHC, WB
Recommended Dilution:	IHC 1:200
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:	NP_001024 Entrez Gene 20133 MouseEntrez Gene 685579 RatEntrez Gene 6240 Human P23921

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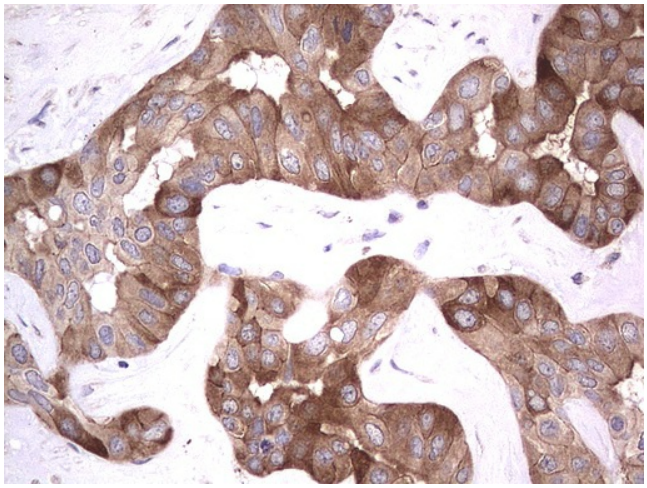
Background: This gene encodes one of two non-identical subunits that constitute ribonucleoside-diphosphate reductase, an enzyme essential for the production of deoxyribonucleotides prior to DNA synthesis in S phase of dividing cells. It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocrotical 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

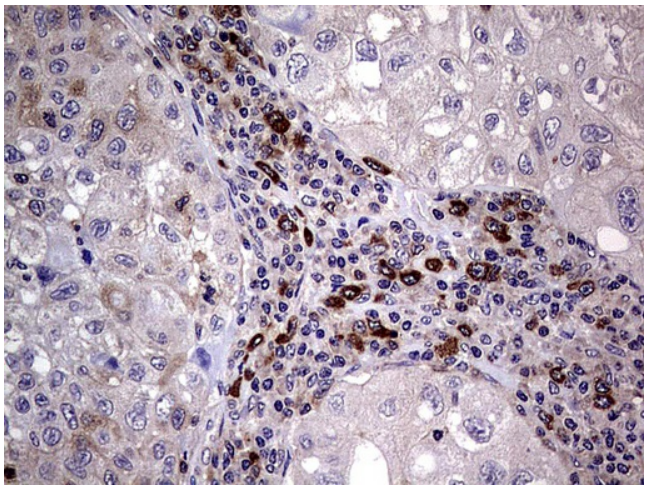
Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

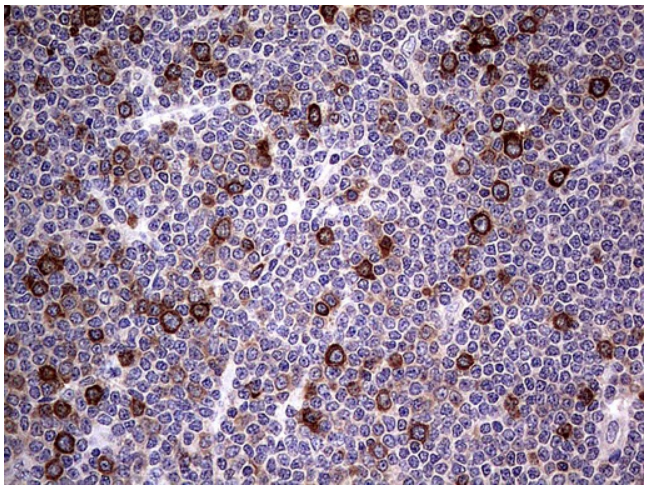
Product images:



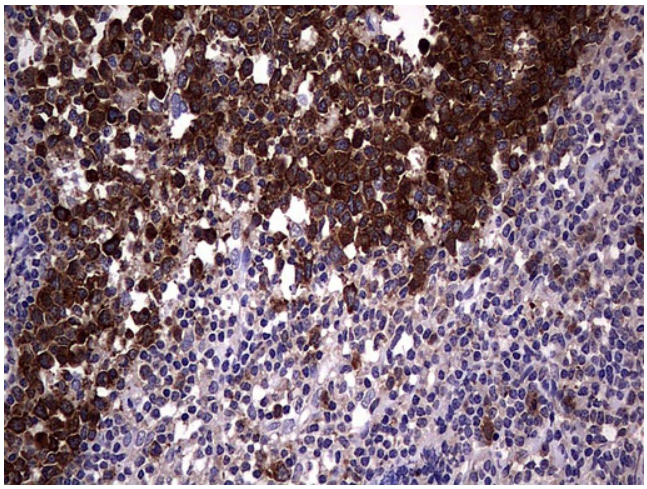
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-RRM1 mouse monoclonal antibody. ([UM800059]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



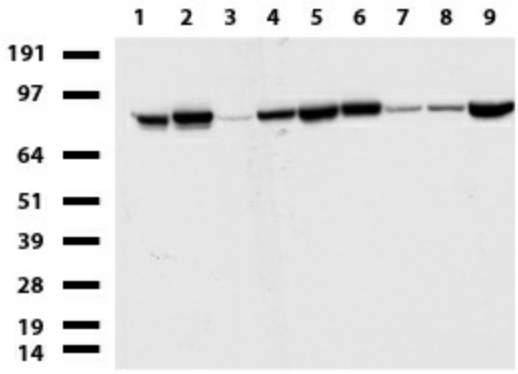
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-RRM1 mouse monoclonal antibody. ([UM800059]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



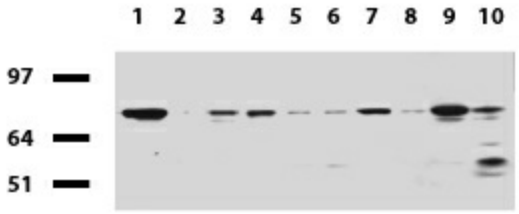
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-RRM1 mouse monoclonal antibody. ([UM800059]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



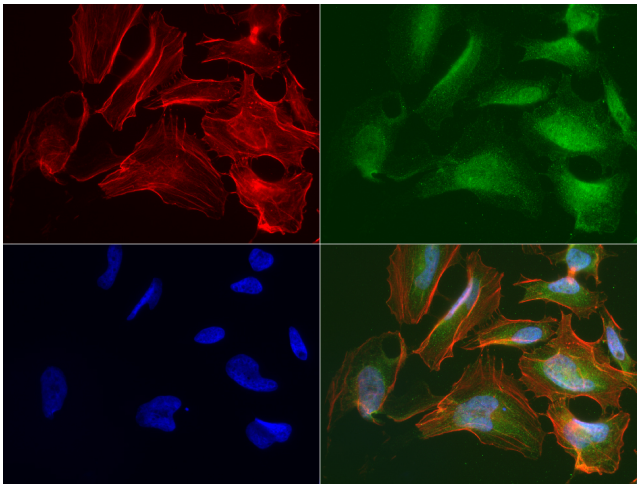
Immunohistochemical staining of paraffin-embedded Human tonsil using anti-RRM1 mouse monoclonal antibody. ([UM800059]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Western blot of cell lysates (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549. 5: COS7, 6: Jurkat, 7: MDCK, 8: PC-12, 9: MCF7).



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Diluation: 1:500.



Immunofluorescent staining of HeLa cells using anti-RRM1 mouse monoclonal antibody ([UM800059], green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).