

Product datasheet for **TA327571S**

RRM2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC, IP, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:10 - 1:100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human RRM2
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45 kDa
Gene Name:	ribonucleotide reductase regulatory subunit M2
Database Link:	NP_001025 Entrez Gene 20135 Mouse Entrez Gene 362720 Rat Entrez Gene 6241 Human P31350

Background: Ribonucleotide reductase M2 subunit is one of two subunits that constitute ribonucleotide reductase, the enzyme that catalyzes the conversion of ribonucleotide 5-diphosphates into 2-deoxyribonucleotides, a rate-limiting step in the production of 2-deoxyribonucleoside 5-diphosphates (dNTP) required for DNA synthesis and repair that is required for DNA synthesis and repair [PMID:20825972, 19250552]. RRM2 is only expressed during the late G1/early S phase, and degraded in late S phase, and the activity of RNR, and therefore DNA synthesis and cell proliferation, is controlled during the cell cycle by the synthesis and degradation of RRM2 subunit.



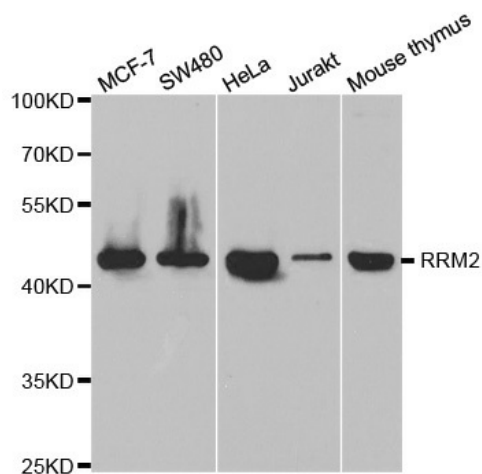
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Synonyms: R2; RR2; RR2M

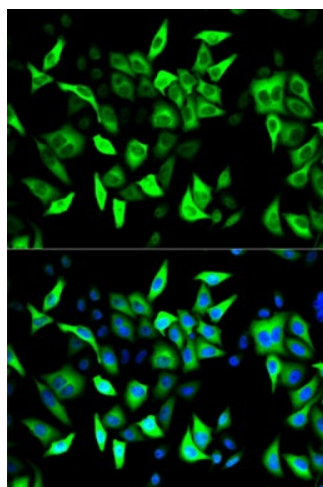
Protein Families: Druggable Genome

Protein Pathways: Glutathione metabolism, Metabolic pathways, p53 signaling pathway, Purine metabolism, Pyrimidine metabolism

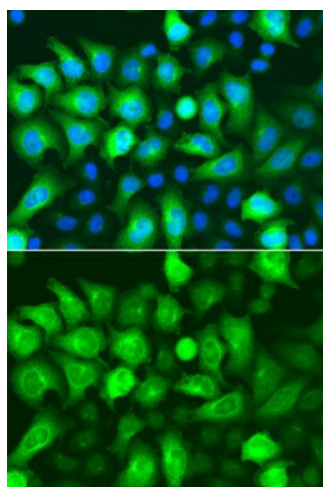
Product images:



Western blot analysis of extracts of various cell lines, using RRM2 antibody.



Immunofluorescence analysis of HeLa cell using RRM2 antibody. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of A549 cell using RRM2 antibody. Blue: DAPI for nuclear staining.