10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RRM1 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant RRM1.

Catalog # AT3729a

Specification

RRM1 Antibody (monoclonal) (M03) - Product Information

Application	**WB, E**
Primary Accession	P23921
Other Accession	NM_001033
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**90070**

RRM1 Antibody (monoclonal) (M03) - Additional Information

Gene ID 6240

Other Names
Ribonucleoside-diphosphate reductase large subunit, Ribonucleoside-diphosphate reductase subunit M1, Ribonucleotide reductase large subunit, RRM1, RR1

Target/Specificity
RRM1 (NP_001024, 644 a.a. ~ 753 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
RRM1 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

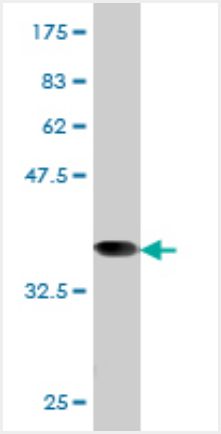
RRM1 Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

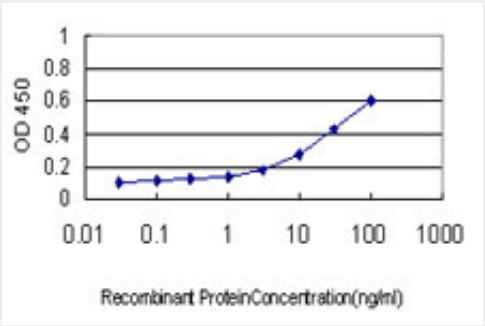
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RRM1 Antibody (monoclonal) (M03) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



Detection limit for recombinant GST tagged RRM1 is approximately 0.3ng/ml as a capture antibody.

RRM1 Antibody (monoclonal) (M03) - 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.

RRM1 Antibody (monoclonal) (M03) - References

Single nucleotide polymorphisms in MDR1 gen correlates with outcome in advanced non-small-cell lung cancer patients treated with cisplatin plus vinorelbine. Vi?olas N, et al. Lung Cancer, 2010 Jun 3. PMID 20627363.Examination of genetic polymorphisms in newborns for signatures of sex-specific prenatal selection. Ucisik-Akkaya E, et al. Mol Hum Reprod, 2010 Oct. PMID 20587610.A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000.RRM1 single nucleotide polymorphism -37C-->A correlates with

progression-free survival in NSCLC patients after gemcitabine-based chemotherapy. Dong S, et al. J Hematol Oncol, 2010 Mar 13. PMID 20226083.Essential role of Tip60-dependent recruitment of ribonucleotide reductase at DNA damage sites in DNA repair during G1 phase. Niida H, et al. Genes Dev, 2010 Feb 15. PMID 20159953.