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

Anti-RRM2 Picoband Antibody
Catalog # ABO12503

Specification

Anti-RRM2 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P31350
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Ribonucleoside-diphosphate reductase subunit M2(RRM2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-RRM2 Picoband Antibody - Additional Information

Gene ID 6241

Other Names
Ribonucleoside-diphosphate reductase subunit M2, 1.17.4.1, Ribonucleotide reductase small chain, Ribonucleotide reductase small subunit, RRM2, RR2

Calculated MW
44878 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm.

Protein Name
Ribonucleoside-diphosphate reductase subunit M2

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human RRM2 (1-33aa MLSLRVPLAPITDPQQLQLSPLKGLSLVDKENT), different from the related mouse and rat sequences by eight amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-RRM2 Picoband Antibody - Protein Information

Name RRM2

Synonyms RR2

Function
Provides the precursors necessary for DNA synthesis. Catalyzes the biosynthesis of deoxyribonucleotides from the corresponding ribonucleotides. Inhibits Wnt signaling.

Cellular Location
Cytoplasm. Nucleus. Note=Localized to the cytoplasm in S phase cells. May localize to the nucleus in G2 phase cells

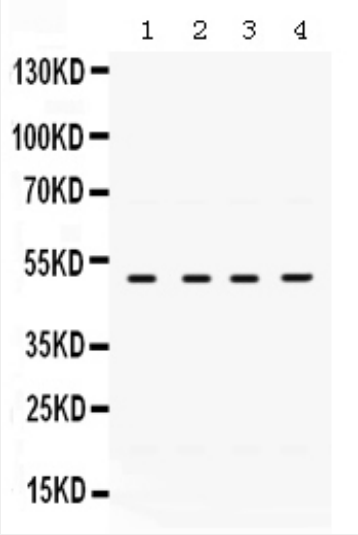
Anti-RRM2 Picoband Antibody - Protocols

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

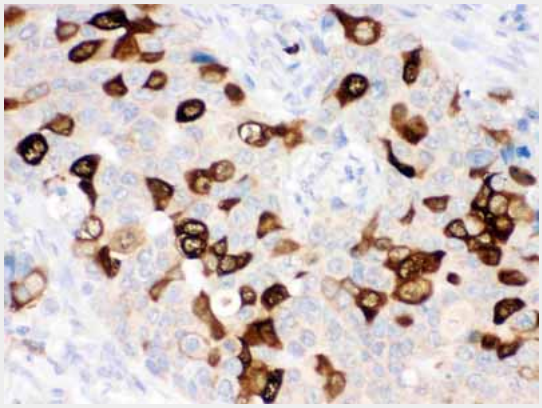
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-RRM2 Picoband Antibody - Images

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



Anti- RRM2 Picoband antibody, ABO12503, Western blottingAll lanes: Anti RRM2 (ABO12503) at 0.5ug/mlLane 1: Rat Cardiac Muscle Tissue Lysate at 50ugLane 2: Mouse Cardiac Muscle Tissue Lysate at 50ugLane 3: A431 Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 50KDObserved bind size: 50KD



Anti- RRM2 Picoband antibody, ABO12503, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-RRM2 Picoband Antibody - Background

Ribonucleoside-diphosphate reductase subunit M2, also known as ribonucleotide reductase small subunit, is an enzyme that in humans is encoded by the RRM2 gene. It is mapped to 2p25-p24. This gene encodes one of two non-identical subunits for ribonucleotide reductase. This reductase catalyzes the formation of deoxyribonucleotides from ribonucleotides. Synthesis of the encoded protein (M2) is regulated in a cell-cycle dependent fashion. Transcription from this gene can initiate from alternative promoters, which results in two isoforms which differ in the lengths of their N-termini. Related pseudogenes have been identified on chromosomes 1 and X.