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#8637

RRM1 (D12F12) XP[®] Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P, IF-IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #P23921	Entrez-Gene Id: 6240
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Product Usage Information

Application

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:100
1:400
1:200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #63356.

Specificity/Sensitivity

RRM1 (D12F12) XP[®] Rabbit mAb recognizes endogenous levels of total RRM1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human RRM1 protein.

Background

Ribonucleotide reductase catalyzes the rate-limiting step in the synthesis of deoxynucleotide triphosphates (dNTPs). The regulatory M1 subunit (RRM1) is present throughout the cell division cycle, but downregulated in quiescent cells (1). Research studies have demonstrated that RRM1 is involved in carcinogenesis and tumor progression, and its expression is correlated with resistance to chemotherapy in non-small cell lung cancer (2-4).

Background References

1. Mann, G.J. et al. (1988) *Cancer Res* 48, 5151-6.
2. Zheng, Z. et al. (2007) *N Engl J Med* 356, 800-8.
3. Ceppi, P. et al. (2006) *Ann Oncol* 17, 1818-25.
4. Bepler, G. et al. (2006) *J Clin Oncol* 24, 4731-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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