

#14794 Store at -20°C

RBMX/hnRNP G (D7C2V) Rabbit mAb


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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| WB, IP | H M R Mk | Endogenous | 42 | Rabbit IgG | #P38159 | 27316 |

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| Product Usage Information | Application Western Blotting Immunoprecipitation | Dilution 1:1000 1:50 |
| 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. | |
| Specificity / Sensitivity | RBMX/hnRNP G (D7C2V) Rabbit mAb recognizes endogenous levels of total RBMX/hnRNP G protein. | |
| Species predicted to react based on 100% sequence homology: | Bovine | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly265 of human RBMX/hnRNP G protein. | |
| Background | The X-linked RNA binding motif protein (RBMX, hnRNP G) is a multi-functional protein that is part of a heterogeneous nuclear ribonucleoprotein complex (1,2). This widely expressed protein is involved in the control of pre-mRNA splicing as part of the spliceosome. RBMX is important for the alternative splicing of many pre-mRNAs, including those that encode for dystrophin, tropomyosin, and survival motor neuron protein (SMN) in skeletal muscle and cardiac muscle (3,4). The RBMX protein is essential for the maintenance of proper sister chromatid cohesion prior to sister chromosome segregation during mitosis (5). Research studies show that RBMX accumulates at sites of DNA damage and that the presence of RBMX is required for homologous recombination repair (6). | |
| Background References | 1. Heinrich, B. et al. (2009) <i>J Biol Chem</i> 284, 14303-15. 2. Martinez-Contreras, R. et al. (2007) <i>Adv Exp Med Biol</i> 623, 123-47. 3. Nasim, M.T. et al. (2003) <i>Hum Mol Genet</i> 12, 1337-48. 4. Hofmann, Y. and Wirth, B. (2002) <i>Hum Mol Genet</i> 11, 2037-49. 5. Matsunaga, S. et al. (2012) <i>Cell Rep</i> 1, 299-308. 6. Adamson, B. et al. (2012) <i>Nat Cell Biol</i> 14, 318-28. | |

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| 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | WB: Western Blotting IP: Immunoprecipitation |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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