

RBMX/hnRNP G (D7C2V) Rabbit mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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) *J Biol Chem* 284, 14303-15.
2. Martinez-Contreras, R. et al. (2007) *Adv Exp Med Biol* 623, 123-47.
3. Nasim, M.T. et al. (2003) *Hum Mol Genet* 12, 1337-48.
4. Hofmann, Y. and Wirth, B. (2002) *Hum Mol Genet* 11, 2037-49.
5. Matsunaga, S. et al. (2012) *Cell Rep* 1, 299-308.
6. Adamson, B. et al. (2012) *Nat Cell Biol* 14, 318-28.

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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