

RBM10 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H R Mk	Endogenous	110, 135	Rabbit	#P98175	8241

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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

RBM10 recognizes endogenous levels of total RBM10 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly53 of human RBM10 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

RBM10 is an RNA binding protein and a paralog to tumor suppressor RBM5 (1,2). Alternative splicing creates two highly expressed variants that differ by one exon. RBM10 controls alternative splicing and exon skipping of mRNAs, including Fas and Bcl-x (3,4). RBM10 has been shown to affect apoptosis via up regulation of TNF-α mRNA (5). In lung cancer, RBM10 mutations disrupt the splicing of NUMB, a regulator of Notch signaling (6,7). Fusion of the *RBM10* gene with TFE3 has been found in renal cell carcinoma (8-9). Mutations of RBM10 causes TARP syndrome, an x-linked, lethal disorder characterized by various developmental defects (10-12).

Background References

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3. Wang, Y. et al. (2013) *EMBO Mol Med* 5, 1431-42.
4. Inoue, A. et al. (2014) *FEBS Lett* 588, 942-7.
5. Wang, K. et al. (2012) *J Cell Death* 5, 1-19.
6. Bechara, E.G. et al. (2013) *Mol Cell* 52, 720-33.
7. Hernández, J. et al. (2016) *RNA Biol* 13, 466-72.
8. Just, P.A. et al. (2016) *Genes Chromosomes Cancer* 55, 541-8.
9. Argani, P. et al. (2017) *Am J Surg Pathol* 41, 655-62.
10. Gorlin, R.J. et al. (1970) *Am J Dis Child* 119, 176-8.
11. Johnston, J.J. et al. (2010) *Am J Hum Genet* 86, 743-8.
12. Gripp, K.W. et al. (2011) *Am J Med Genet A* 155A, 2516-20.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

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

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