

Y14 / RBM8A Antibody

Mouse Monoclonal Antibody [Clone PCR-P-RBM8A-1B4]

Catalog No	Format	Size
9939-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
9939-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
9939-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

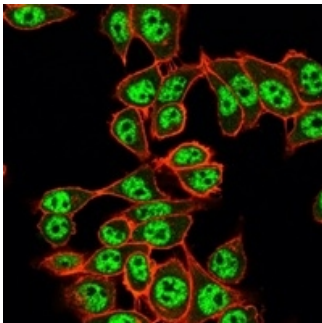
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

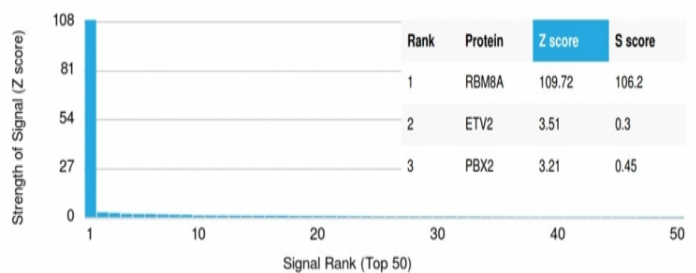
Clone	PCR-P-RBM8A-1B4
Gene Name	RBM8A
Immunogen	Recombinant full-length human RBM8A protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	24kDa
Cellular Localization	Cytoplasm, Nucleus, Nucleus speckle
Species Reactivity	Human
Positive Control	HeLa or HepG2 cells.

*Optimal dilution for a specific application should be determined.

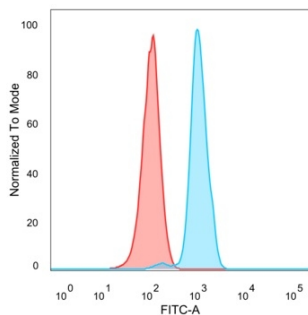
Product Images for Y14 / RBM8A Antibody



Immunofluorescence Analysis of PFA-fixed HeLa cells using Y14 / RBM8A Mouse Monoclonal Antibody (PCR-P-RBM8A-1B4) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using Y14 / RBM8A Mouse Monoclonal Antibody (PCR-P-RBM8A-1B4). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometric Analysis of PFA-fixed HeLa cells. Y14 / RBM8A Mouse Monoclonal Antibody (PCRP-RBM8A-1B4) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

Specificity & Comments

Y14 Antibody is a high quality monoclonal Y14 antibody (also designated Y14 antibody) suitable for the detection of the Y14 protein of mouse, rat, human and *Xenopus laevis* origin. Y14 Antibody (4C4) is available as both the non-conjugated anti-Y14 antibody form, as well as multiple conjugated forms of anti-Y14 antibody, including agarose, HRP, PE, FITC and multiple Alexa Fluor conjugates. The exon junction complex (EJC) is a multiprotein complex that assembles approximately 20-24 nucleotides upstream of exon-exon junctions in pre-mRNAs. It is involved in mRNA export, cytoplasmic localization, and nonsense-mediated mRNA decay. Members of the EJC include Y14, Aly/REF, Magoh, RNPS1, SRm160, and DEK. Aly/REF, Magoh, and Y14, identified as RBM8 in mouse and rat, make up the core of the EJC, and these proteins remain stably bound to spliced mRNAs in the cytoplasm until they are translated. Therefore, Y14, Aly/REF, and Magoh have the ability to communicate to the cytoplasm the processing history of the mRNA, including the position of the removed introns. The gene encoding human Y14 encodes three transcripts. Y14 is a ubiquitously expressed protein. Although Y14 shuttles to the cytoplasm, it is predominantly detected in the nucleus and is co-localized with oskar mRNA at the posterior pole of the cell.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Developmental Biology, Transcription Factors