MBNL3 Antibody

Mouse Monoclonal Antibody [Clone PCRP-MBNL3-1D11]

Catalog No	Format	Size
55796-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
55796-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
55796-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

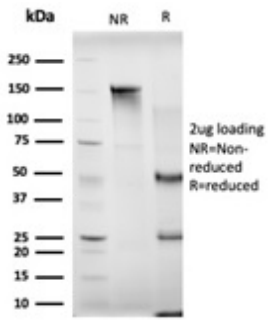
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	

Product Details

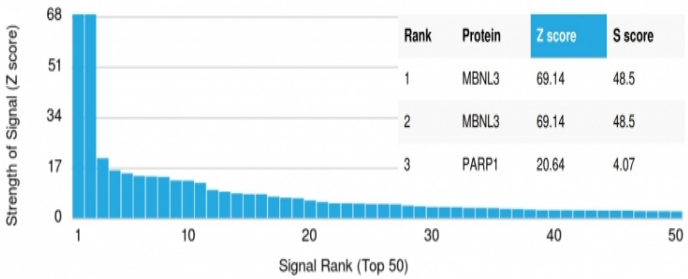
Clone	PCRP-MBNL3-1D11
Gene Name	MBNL3
Immunogen	Recombinant full-length human MBNL3 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b
Mol. Weight of Antigen	39kDa
Cellular Localization	Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	HeLa or MCF7 cells.

**Optimal dilution for a specific application should be determined.*

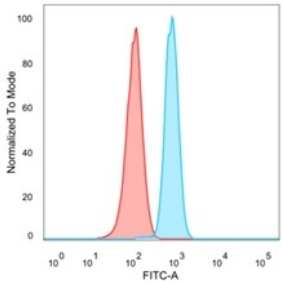
Product Images for MBNL3 Antibody



SDS-PAGE Analysis of Purified MBNL3 Mouse Monoclonal Antibody (PCRP-MBNL3-1D11). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing MBNL3 Mouse Monoclonal Antibody (PCRP-MBNL3-1D11). 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 HuProtTM 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 HuProtTM 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 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. MBNL3 Mouse Monoclonal Antibody (PCRP-MBNL3-1D11) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

Specificity & Comments

Pre-mRNA splicing is a critical step in the posttranscriptional regulation of gene expression. Several protein complexes are involved in proper mRNA splicing and transport. The muscleblind proteins, MBNL1, MBNL2 and MBNL3, promote inclusion or exclusion of specific exons on different pre-mRNAs by antagonizing the activity of CUG-BP and ETR-3-like factors bound to distinct intronic sites. MBNL1 and 2, which associate with expanded CUG repeats in vitro, localize to the nuclear foci in both DM1 and DM2 (myotonic dystrophy types 1 and 2), suggesting that the nuclear accumulation of mutant RNA is pathogenic in DM1, therefore implicating MBNL1 and 2 in the pathogenesis of both disorders. MBNL3, a 354 amino acid protein, inhibits expression of muscle differentiation, opposite to the function of MBNL1, which functions as a promoter of muscle differentiation. MBNL3 shows strong expression in placenta.

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

Cardiovascular, Nuclear Marker

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.