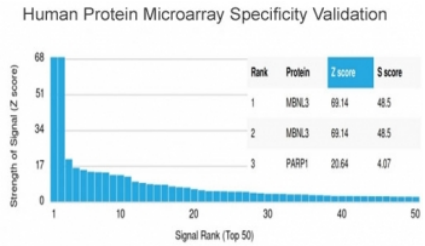
MBNL3 Antibody [clone PCRP-MBNL3-1D11] (V9208)

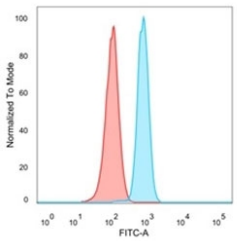
Catalog No.	Formulation	Size
V9208-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9208-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9208SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

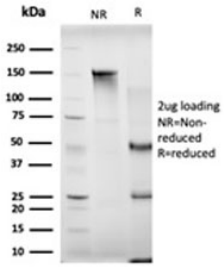
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	PCRP-MBNL3-1D11
Purity	Protein A/G affinity
UniProt	Q9NUK0
Localization	Nucleus, Cytoplasm
Applications	Flow Cytometry : 1-2ug/million cells
Limitations	This MBNL3 antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MBNL3 antibody (clone PCRP-MBNL3-1D11). These results demonstrate the foremost specificity of the PCRP-MBNL3-1D11 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



FACS staining of PFA-fixed human HeLa cells with MBNL3 antibody (blue, clone PCRP-MBNL3-1D11), and unstained cells (red).



SDS-PAGE analysis of purified, BSA-free MBNL3 antibody (clone PCRP-MBNL3-1D11) as confirmation of integrity and purity.

Description

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.

Application Notes

Optimal dilution of the MBNL3 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human MBNL3 protein was used as the immunogen for the MBNL3 antibody.

Storage

Aliquot the MBNL3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.