

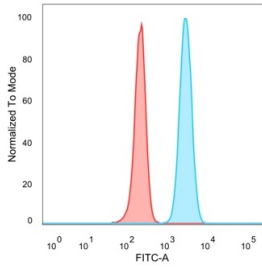
Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9] (A248099)

Specifications:

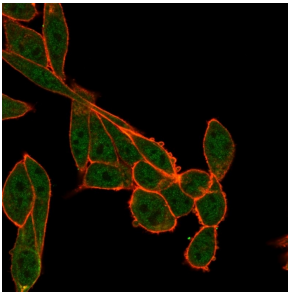
Name:	Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9]
Description:	Mouse monoclonal [PCRP-SMNDC1-1A9] antibody to SMNDC1.
Specificity:	SPF30 (survival of motor neuron-related-splicing factor 30), also known as SMNDC1 (survival motor neuron domain containing 1) or SMNR (SMN-related protein), is an essential splicing factor required for spliceosome assembly that belongs to the SMN family. It contains one Tudor domain with significant similarity to SMN (survival motor neuron) and is expressed in skeletal muscle, pancreas and heart, localizing to Cajal bodies and nuclear speckles. SPF30 plays an important role in spliceosome assembly and directly interacts with five U snRNPs. The loss of SPF30 causes spliceosome assembly to arrest at prespliceosomes (A complex). This supports a function for SPF30 in mediating the incorporation/recruitment of U4/U5/U6 tri-snRNP to the prespliceosome. In addition, the overexpression of SPF30 can lead to apoptosis.
Applications:	Flow Cytometry, IF
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IF: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant full-length human SMNDC1 protein.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	PCRP-SMNDC1-1A9
Isotype:	IgG2b
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9] - BSA and Azide free (A251282).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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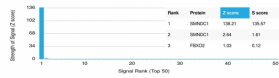
Images:



Flow cytometric analysis of PFA fixed HeLa cells using Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Unstained cells (red).



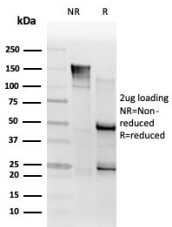
Immunofluorescent analysis of PFA fixed HeLa cells stained with Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9] followed by Goat Anti-Mouse IgG (CF® 488) (Green). Counterstain is Phalloidin-CF® 640A (Red).



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9]. Z-Score 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.

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Images continued:



SDS-PAGE analysis of Anti-SMNDC1 Antibody [PCRP-SMNDC1-1A9] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.