abcam

Product datasheet

Anti-SMNDC1 antibody [PCRP-SMNDC1-1A9] ab277099

3 Images

Overview

Product name	Anti-SMNDC1 antibody [PCRP-SMNDC1-1A9]
Description	Mouse monoclonal [PCRP-SMNDC1-1A9] to SMNDC1
Host species	Mouse
Tested applications	**Suitable for:** Protein Array, Flow Cyt, ICC
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein corresponding to Human SMNDC1 aa 1-238. Database link: **O75940**
Positive control	Flow cyt: HeLa cells. ICC: HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, 99.9% PBS
Purity	Protein A/G purified
Purification notes	Purified from bioreactor concentrate
Clonality	Monoclonal
Clone number	PCRP-SMNDC1-1A9
Isotype	IgG2b

Applications

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab277099 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Protein Array		Use at an assay dependent concentration.
Flow Cyt		Use 1-2µg for 10^6 cells.
ICC		Use a concentration of 1 - 2 µg/ml.

Target

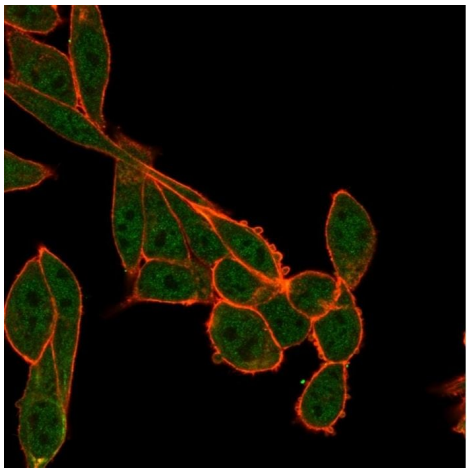
Function Necessary for spliceosome assembly. Overexpression causes apoptosis.

Tissue specificity Detected at intermediate levels in skeletal muscle, and at low levels in heart and pancreas.

Sequence similarities Belongs to the SMN family.
Contains 1 Tudor domain.

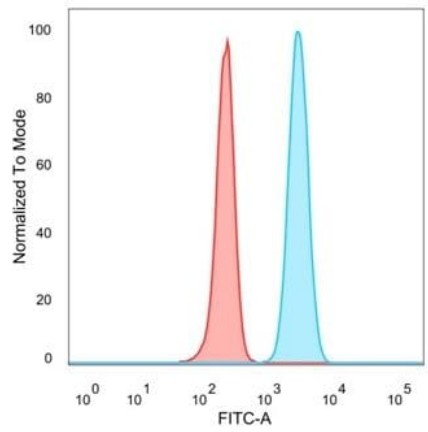
Cellular localization Nucleus speckle. Nucleus > Cajal body. Detected in nuclear speckles containing snRNP and in Cajal (coiled) bodies.

Images



Immunocytochemistry - Anti-SMNDC1 antibody [PCRP-SMNDC1-1A9] (ab277099)

Immunofluorescence analysis of PFA-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling SMNDC1 with ab277099 at 2 µg/ml, followed by goat anti-mouse IgG-CF488 (green); phalloidin counterstain (red).



Flow Cytometry - Anti-SMNDC1 antibody [PCRP-SMNDC1-1A9] (ab277099)

Flow cytometry analysis of PFA-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling SMNDC1 using ab277099 at 2 µg / 10^6 cells followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

Protein Array - Anti-SMNDC1 antibody [PCRP-SMNDC1-1A9] (ab277099)

Analysis of Protein Array containing more than 19,000 full-length human proteins using ab277099.

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.

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