

Sirtuin 3 (SIRT3) Antibody

Mouse Monoclonal Antibody [Clone PCR-P-SIRT3-1C10]

Catalog No	Format	Size
23410-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
23410-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
23410-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

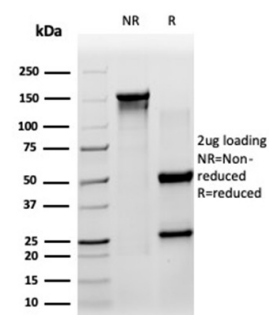
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

Product Details

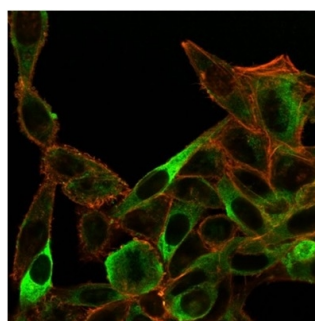
Clone	PCR-P-SIRT3-1C10
Gene Name	SIRT3
Immunogen	Recombinant full-length human SIRT3 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a
Mol. Weight of Antigen	43.57kDa
Cellular Localization	Mitochondrion matrix
Species Reactivity	Human
Positive Control	HeLa cells.

*Optimal dilution for a specific application should be determined.

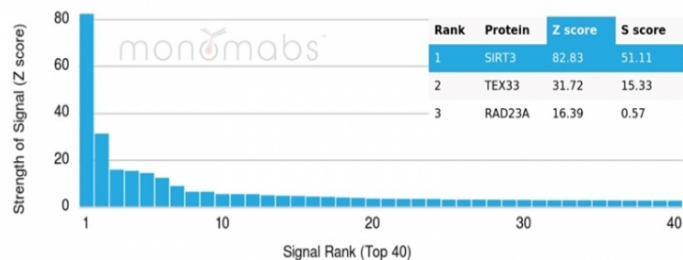
Product Images for Sirtuin 3 (SIRT3) Antibody



SDS-PAGE Analysis of Purified SIRT3 Mouse Monoclonal Antibody (PCR-P-SIRT3-1C10). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence Analysis of PFA-fixed HeLa cells stained using SIRT3 Mouse Monoclonal Antibody (PCR-P-SIRT3-1C10) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



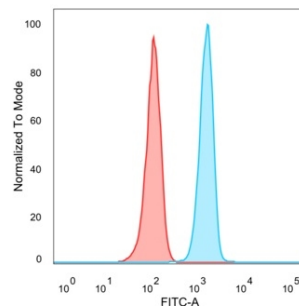
Analysis of Protein Array containing more than 19,000 full-length human proteins using SIRT3-Monospecific Mouse Monoclonal Antibody (PCRP-SIRT3-1C10). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG 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.

Specificity & Comments

Zinc-fingers and homeobox (ZHX) proteins are transcription factors that interact with the activation domain of the A subunit of nuclear factor-Y (NF-YA). ZHX1-3 are ubiquitously expressed proteins expressed in various tissues. They act as transcriptional repressors and localize to the nucleus. The ZHX proteins contain two Cys2-His2-type zinc-finger motifs and five homeodomains (HDs). These domains allow the ZHX proteins to form homodimers, but they can also form heterodimers with each other. However, this dimerization is not required for repressor activity. Hypermethylation-mediated silencing of ZHX2 is an epigenetic event involved in hepatocellular carcinoma (HCC).

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.



Flow cytometric analysis of PFA-fixed HeLa cells. SIRT3 Mouse Monoclonal Antibody (PCRP-SIRT3-1C10) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

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, Transcription Factors