

## SIRT2 Antibody

Mouse Monoclonal Antibody [Clone PCR-P-SIRT2-1A8]

Catalog No	Format	Size
22933-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
22933-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
22933-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

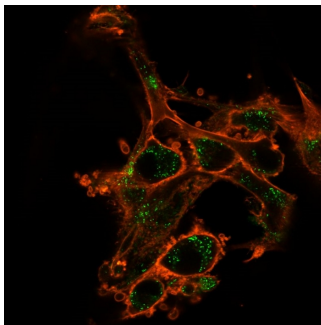
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

### Product Details

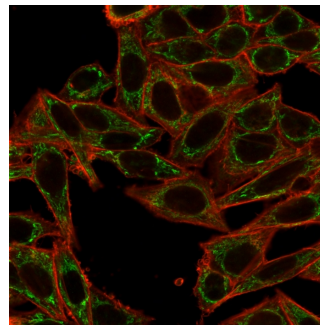
<b>Clone</b>	PCR-P-SIRT2-1A8
<b>Gene Name</b>	SIRT2
<b>Immunogen</b>	Recombinant full-length human SIRT2 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1
<b>Mol. Weight of Antigen</b>	43kDa
<b>Cellular Localization</b>	Cell projection, Centriole, Centrosome, Chromosome, Cytoplasm, Cytoskeleton, Growth cone, Microtubule organizing center, Midbody, Myelin membrane, Nucleus, Perikaryon, Perinuclear region, Spindle
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	HeLa, MCF-7 or U-87 cells.

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

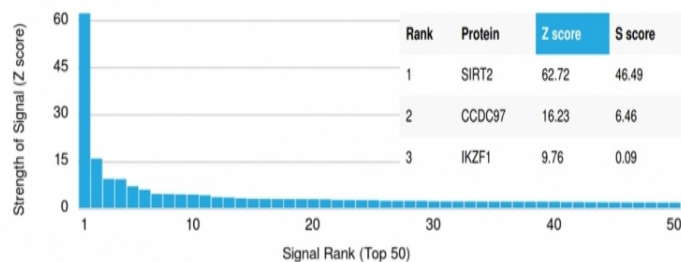
### Product Images for SIRT2 Antibody



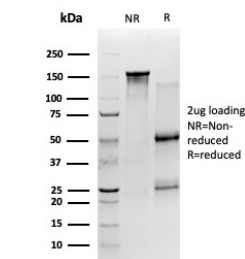
Immunofluorescence Analysis of PFA-fixed U-87 cells using SIRT2 Mouse Monoclonal Antibody (PCR-P-SIRT2-1A8) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



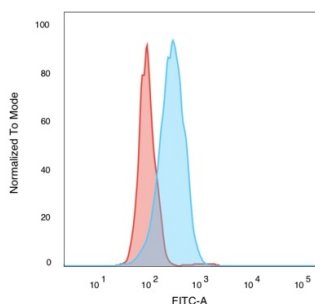
Immunofluorescence Analysis of PFA-fixed HeLa cells using SIRT2 Mouse Monoclonal Antibody (PCR-P-SIRT2-1A8) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using SIRT2 Mouse Monoclonal Antibody (PCRP-SIRT2-1A8). 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.



SDS-PAGE Analysis. Purified SIRT2 Mouse Monoclonal Antibody (PCRP-SIRT2-1A8). Confirmation of Purity and Integrity of Antibody.



Flow Cytometric Analysis of PFA-fixed MCF-7 cells. SIRT2 Mouse Monoclonal Antibody (PCRP-SIRT2-1A8) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

### Specificity & Comments

The silent information regulator (SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and are involved in diverse processes, including transcriptional regulation, cell cycle progression, DNA-damage repair and aging. In *S. cerevisiae*, Sir2p deacetylates histones in a NAD-dependent manner, which regulates silencing at the telomeric, rDNA and silent mating-type loci. Sir2p is the founding member of a large family, designated sirtuins, which contain a conserved catalytic domain. The human homologs, which include SIRT1-7, are divided into four main branches: SIRT1-3 are class I, SIRT4 is class II, SIRT5 is class III and SIRT6-7 are class IV. SIRT proteins may function via mono-ADP-ribosylation of proteins. SIRT2 contains a 323 amino acid catalytic core domain with a NAD-binding domain and a large groove which is the likely site of catalysis.

### 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.

### 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