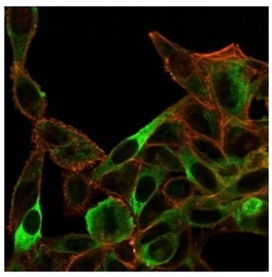
SIRT3 Antibody [clone PCRP-SIRT3-1C10] (V9646)

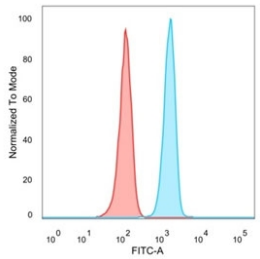
Catalog No.	Formulation	Size
V9646-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9646-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9646SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

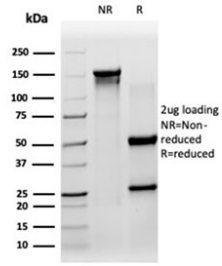
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-SIRT3-1C10
Purity	Protein A/G affinity
UniProt	Q9NTG7
Localization	Cytoplasm
Applications	ELISA (order BSA-free Format For Coating) : Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml
Limitations	This SIRT3 antibody is available for research use only.



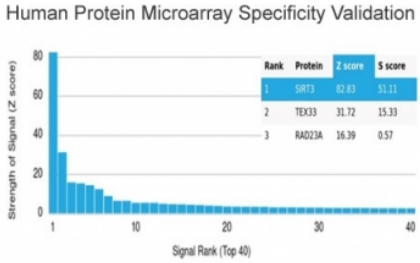
Immunofluorescent staining of PFA-fixed human HeLa cells using SIRT3 antibody (green, clone PCRP-SIRT3-1C10) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with SIRT3 antibody (blue, clone PCRP-SIRT3-1C10) and isotype control (red).



SDS-PAGE analysis of purified, BSA-free SIRT3 antibody (clone PCRP-SIRT3-1C10) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using SIRT3 antibody (clone PCRP-SIRT3-1C10). These results demonstrate the foremost specificity of the PCRP-SIRT3-1C10 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.

Description

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).

Application Notes

Optimal dilution of the SIRT3 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human SIRT3 protein was used as the immunogen for the SIRT3 antibody.

Storage

Aliquot the SIRT3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.