

Anti-SIRT2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

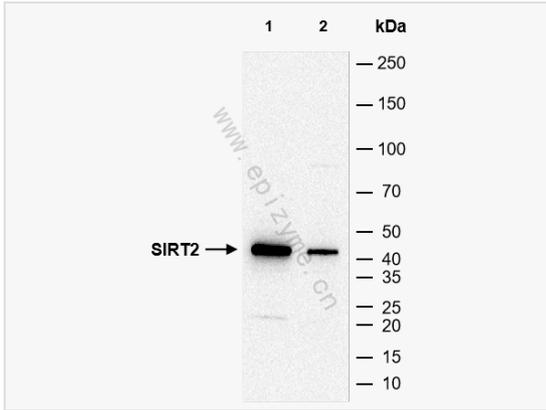
Catalog # R014135

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	68A65P55
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human SIRT2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SIRT2 Rabbit mAb [68A65P55] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	FLJ35621, FLJ37491, NAD dependent deacetylase sirtuin 2, NAD dependent protein deacetylase sirtuin 2, NAD-dependent deacetylase sirtuin-2, NAD-dependent protein deacetylase sirtuin-2, Regulatory protein SIR2 homolog 2, Silencing information regulator 2 like, Silent information regulator 2, SIR2, SIR2 like protein 2, Sir2 related protein type 2, SIR2, S. cerevisiae, homolog-loke 2, SIR2-like protein 2, SIR2L, SIR2L2, SIRT2, SIRT2_HUMAN, Sirtuin (silent mating type information regulation 2 homolog) 2 (S.cerevisiae), Sirtuin 2, Sirtuin type 2.
Calculated MW	Calculated MW: 43 kDa; Observed MW: 43 kDa
Uniprot ID	Q8IXJ6
Gene ID	22933
Background	SIRT2, a human homolog of the yeast SIR2 (silent information regulator-2), functions as transcriptional silencing mediator at mating-type loci, telomeres and ribosomal gene clusters. SIRT2 expression increases dramatically during mitosis and is multiply phosphorylated at the G(2)/M transition of the cell cycle.
Cellular Location	Cytoplasm > cytoskeleton. Colocalizes with microtubules.
Tissue Location	Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network.



Western Blot - Anti-SIRT2 Rabbit mAb [68A65P55]

All lanes: R014135 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: T24 (Human bladder cancer epithelial cell) whole cell lysates

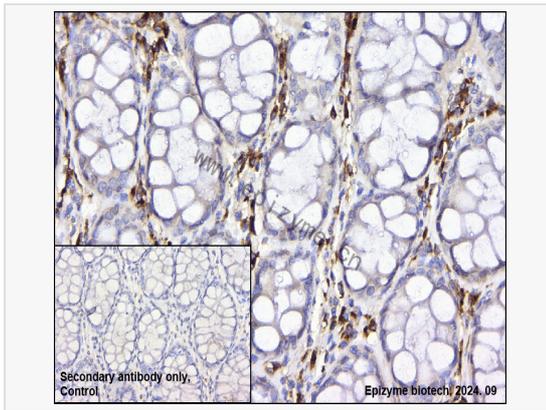
Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 43 kDa

Observed band size: 43 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-SIRT2 Rabbit mAb [68A65P55]

Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014135 at 1:200 dilution

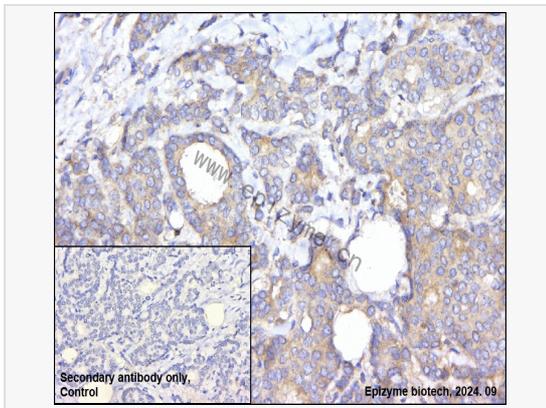
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-SIRT2 Rabbit mAb [68A65P55]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014135 at 1:200 dilution

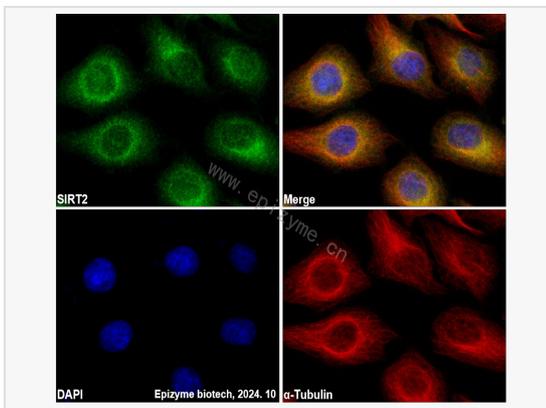
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-SIRT2 Rabbit mAb [68A65P55]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014135 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).