

Anti-SIRT3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

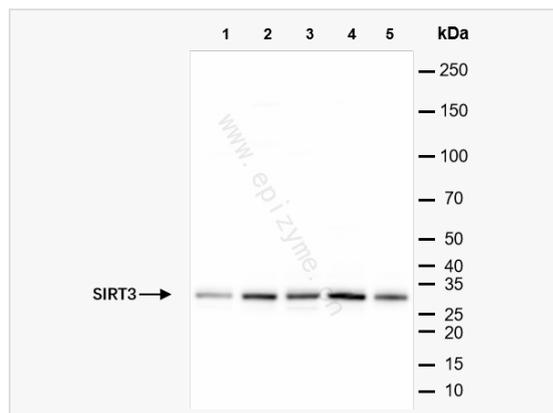
Catalog # R010359

Product Information

Application	WB, IHC-P/IF (Tissue-P), 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.	62L20K67
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human SIRT3
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-SIRT3 Rabbit mAb [62L20K67] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	hSIRT 3, hSIRT3, Mitochondrial nicotinamide adenine dinucleotide dependent deacetylase, NAD dependent deacetylase sirtuin 3 mitochondrial, NAD-dependent protein deacetylase sirtuin-3, mitochondrial, Regulatory protein SIR2 homolog 3, Silent mating type information regulation 2 <i>S.cerevisiae</i> homolog 3, Sir 2 like 3, SIR 2 like protein 3, SIR 3, SIR2 L3, Sir2 like 3, SIR2 like protein 3, SIR2-like protein 3, SIR2L3, SIR3_HUMAN, SIRT 3, SIRT3, Sirtuin 3, Sirtuin silent mating type information regulation 2 homolog 3 (<i>S. cerevisiae</i>), Sirtuin type 3, Sirtuin3.
Calculated MW	Calculated MW: 44 kDa; Observed MW: 28 kDa
Uniprot ID	Q9NTG7
Gene ID	23410
Background	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Two alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008]
Cellular Location	Mitochondrion matrix.
Tissue Location	Widely expressed.



Western Blot - Anti-SIRT3 Rabbit mAb [62L20K67]

All lanes: R010359 at 1:1,000 dilution

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

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

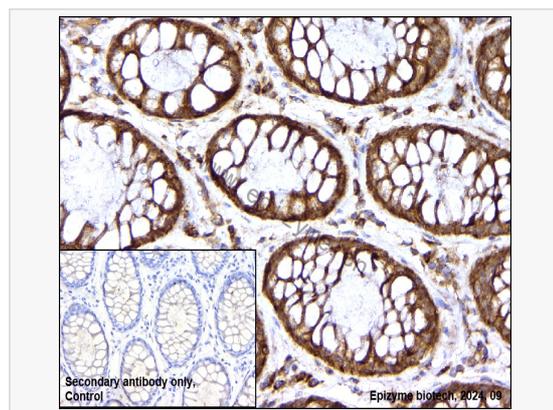
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 44 kDa

Observed band size: 28 kDa

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



Immunohistochemistry - Anti-COX5B Rabbit mAb [46K74M20]

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

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

Primary antibody: R010359 at 1:200 dilution

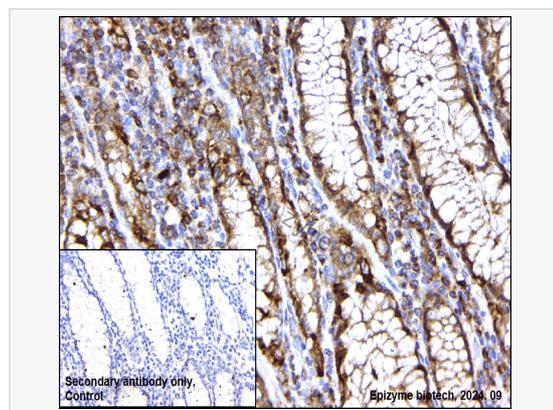
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-COX5B Rabbit mAb [46K74M20]

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

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

Primary antibody: R010359 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.