

Anti-SIRT5 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

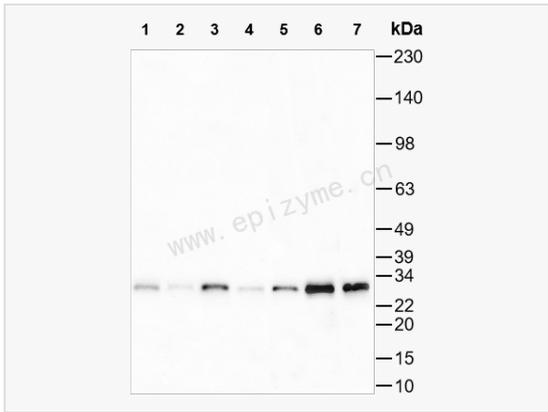
Catalog # R015952

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
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.	64P88G10
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human SIRT5
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% 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-SIRT5 Rabbit mAb [64P88G10] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	SIR2L5; SIRT5; Regulatory protein SIR2 homolog 5; SIR2-like protein 5.
Calculated MW	Calculated MW: 34 kDa; Observed MW: 30 kDa
Uniprot ID	Q9NXA8, Q8K2C6, Q68FX9
Gene ID	23408, 68346, 306840
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 III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2010] Enables protein-glutaryllysine deglutarylase activity; protein-malonyllysine demalonylase activity; and protein-succinyllysine desuccinylase activity. Involved in protein deacylation and regulation of ketone biosynthetic process. Acts upstream of or within regulation of succinate dehydrogenase activity and response to ischemia. Located in cytosol and mitochondrial inner membrane. Is expressed in several structures, including 1st branchial arch maxillary component; oocyte; palatal shelf; sensory organ; and tibialis anterior. Orthologous to human SIRT5 (sirtuin 5). [provided by Alliance of Genome Resources, Jul 2025] Predicted to enable several functions, including NAD ⁺ binding activity; NAD-dependent protein lysine deacylase activity; and protein-malonyllysine demalonylase activity. Involved in negative regulation of cardiac muscle cell apoptotic process and response to nutrient levels. Predicted to be located in mitochondrial inner membrane and mitochondrial intermembrane space. Predicted to be active in cytosol;



Western Blot - Anti-SIRT5 Rabbit mAb [64P88G10]

All lanes: R015952 at 1:1,000 dilution

Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 3: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 4: THP-1 (Human monocytic leukemia cell) whole cell lysates

Lane 5: Mouse brain whole tissue lysates

Lane 6: Mouse liver whole tissue lysates

Lane 7: Rat brain whole tissue lysates

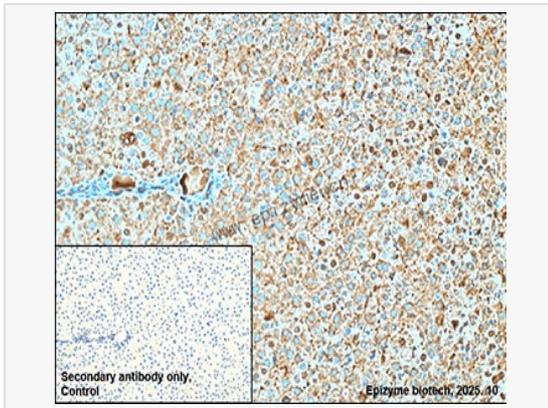
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 34 kDa

Observed band size: 30 kDa

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



Immunohistochemistry - Anti-SIRT5 Rabbit mAb [64P88G10]

Sample: Paraformaldehyde-fixed, paraffin embedded rat liver tissue

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

Primary antibody: R015952 at 1:200 dilution

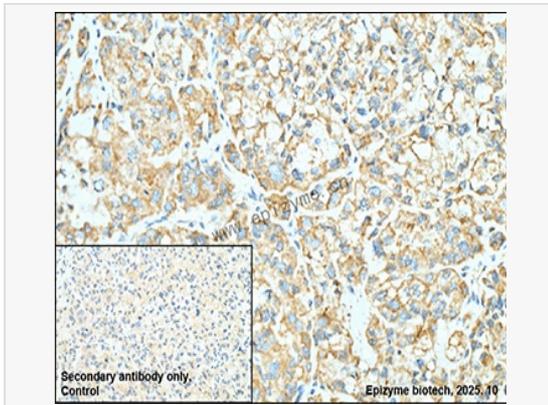
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-SIRT5 Rabbit mAb [64P88G10]

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

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

Primary antibody: R015952 at 1:200 dilution

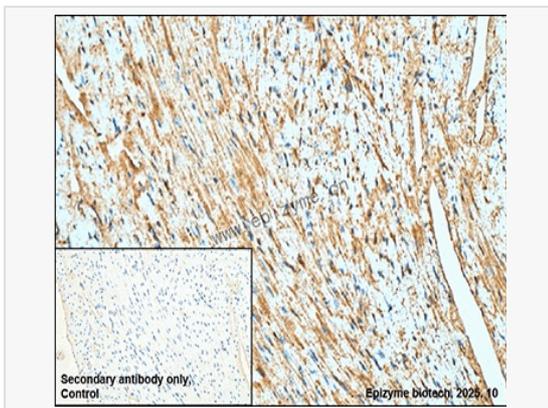
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-SIRT5 Rabbit mAb [64P88G10]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse heart tissue

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

Primary antibody: R015952 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.