

Anti-SIRT7 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

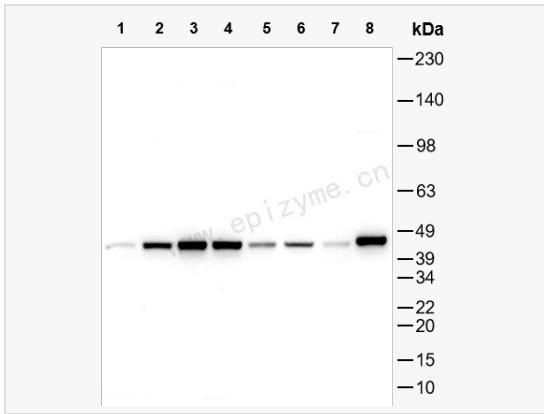
Catalog # R016045

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.	30N69R77
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human SIRT7
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-SIRT7 Rabbit mAb [30N69R77] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	NAD dependent deacetylase sirtuin 7; NAD-dependent deacetylase sirtuin-7; Silent mating type information regulation 2 homolog; Silent mating type information regulation 2 <i>S.cerevisiae</i> homolog 7; SIR2 L7; SIR2 like protein 7; Sir2 related protein type 7; SIR2, <i>S.CEREVISIAE</i> , HOMOLOG-LIKE 7; SIR2-like protein 7; SIR2L 7; SIR2L7; SIRT 7; SIR7_HUMAN; Sirtuin 7; Sirtuin type 7; Sirtuin7.
Calculated MW	Calculated MW: 45 kDa; Observed MW: 45 kDa
Uniprot ID	Q9NRC8, Q8BKJ9, B2RZ55
Gene ID	51547, 209011, 303745
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 IV of the sirtuin family. [provided by RefSeq, Jul 2008] Enables NAD-dependent protein-lysine depropionylase activity and histone H3K18 deacetylase activity, NAD-dependent. Involved in several processes, including chromatin remodeling; homologous chromosome pairing at meiosis; and protein deacylation. Located in chromatin and site of double-strand break. Is expressed in several structures, including 1st branchial arch maxillary component; central nervous system; eye; gonad; and pancreas. Orthologous to human SIRT7 (sirtuin 7). [provided by Alliance of Genome Resources, Jul 2025] Predicted to enable several functions, including NAD ⁺ binding activity; NAD-dependent protein lysine deacylase activity; and chromatin binding activity. Predicted to be involved in several



Western Blot - Anti-SIRT7 Rabbit mAb [30N69R77]

All lanes: R016045 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: MCF-7 (human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 5: 293T (Human embryonic kidney cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: Mouse liver whole tissue lysates

Lane 8: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

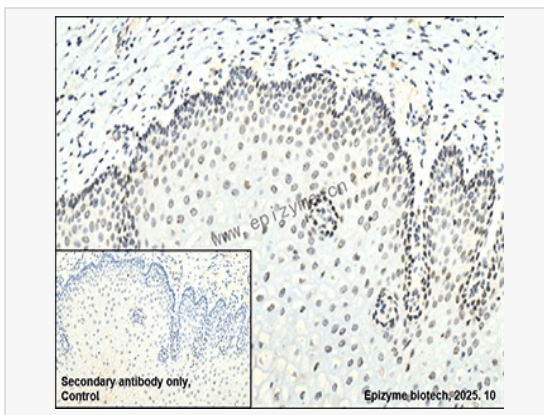
Lysates/proteins at 10 µg per lane.

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

Predicted band size: 45 kDa

Observed band size: 45 kDa

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



Immunohistochemistry - Anti-SIRT7 Rabbit mAb [30N69R77]

Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R016045 at 1:200 dilution

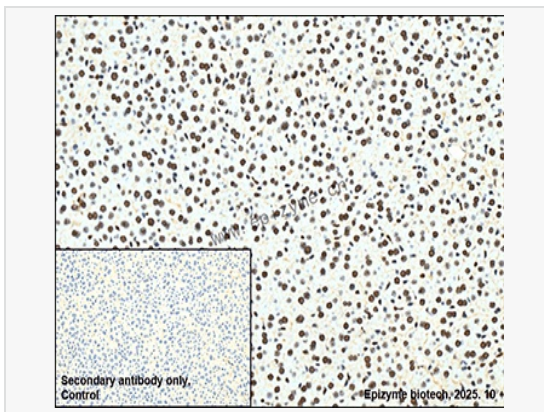
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-SIRT7 Rabbit mAb [30N69R77]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue

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

Primary antibody: R016045 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.