Anti-Phospho-SIRT1 (Thr530) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014158

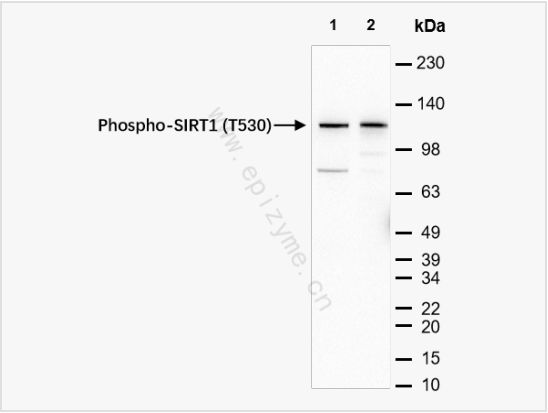
Product Information

Application	ELISA, WB
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	58C48O07
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human SIRT1
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-Phospho-SIRT1 (Thr530) Rabbit mAb [58C48O07] is for research use only and not for use in diagnostic or therapeutic procedures.

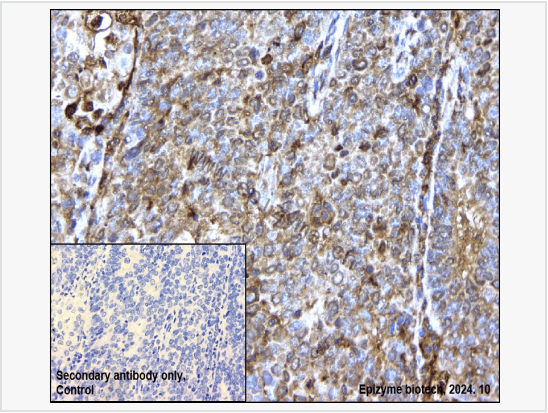
Protein Information

Synonyms	75SirT1, hSIR2, hSIRT1, HST2, HST2, S. cerevisiae, homolog of, NAD dependent deacetylase sirtuin 1, NAD dependent protein deacetylase sirtuin 1, NAD-dependent deacetylase sirtuin-1, OTTHUMP00000198111, OTTHUMP00000198112, Regulatory protein SIR2 homolog 1, SIR1_HUMAN, SIR2, SIR2 like 1, SIR2 like protein 1, SIR2, S.cerevisiae, homolog-like 1, SIR2-like protein 1, SIR2ALPHA, SIR2L1, Sirt1, SirtT1 75 kDa fragment, Sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae), Sirtuin 1, Sirtuin type 1.
Calculated MW	Calculated MW: 82 kDa; Observed MW: 120 kDa
Uniprot ID	Q96EB6
Gene ID	23411
Background	The Silent Information Regulator (SIR2) family of genes is a highly conserved group of genes that encode nicotinamide adenine dinucleotide (NAD)-dependent protein deacetylases, also known as class III histone deacetylases. SirT1 deacetylase activity is inhibited by nicotinamide and activated by resveratrol.
Cellular Location	Cytoplasm. Mitochondrion and Nucleus, PML body. Cytoplasm. Nucleus. Recruited to the nuclear bodies via its interaction with PML (PubMed:12006491). Colocalized with APEX1 in the nucleus (PubMed:19934257). May be found in nucleolus, nuclear euchromatin, heterochromatin and inner membrane (PubMed:15469825). Shuttles between nucleus and cytoplasm (By similarity). Colocalizes in the nucleus with XBP1 isoform 2 (PubMed:20955178).
Tissue Location	Widely expressed.

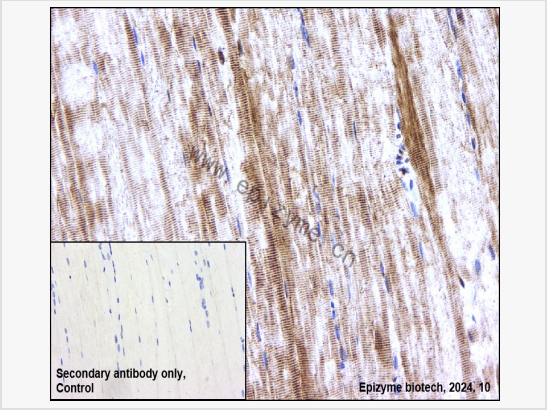
Validation Images



Western Blot - Anti-Phospho-SIRT1 (Thr530) Rabbit mAb [58C48O07]
All lanes: R014158 at 1:1,000 dilution
Lane 1: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 2: 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: 82 kDa
Observed band size: 120 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-SIRT1 (Thr530) Rabbit mAb [58C48O07]
Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014158 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-Phospho-SIRT1 (Thr530) Rabbit mAb [58C48O07]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse muscle tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014158 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.