

Rabbit M Sirt3 Polyclonal Antibody | anti-Sirt3 antibody

M Sirt3 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288158	Rabbit	Mouse, hamster	Immunohistochemistry, ELISA, Western Blot

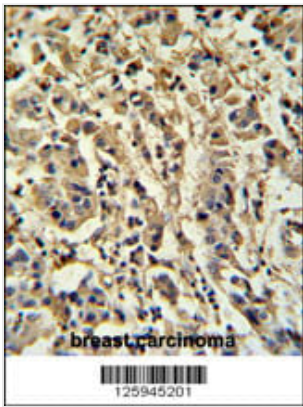
PRODUCT SYNONYMS

M Sirt3; Polyclonal Antibody; M Sirt3 Antibody (C-term); NAD-dependent protein deacetylase sirtuin-3; 351-; Regulatory protein SIR2 homolog 3; SIR2-like protein 3; mSIR2L3; Sirt3; Sir2l3; anti-Sirt3 antibody

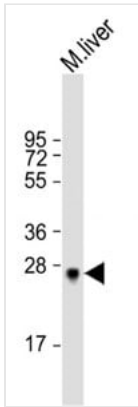
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, hamster
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Sirt3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 304-334 amino acids from the C-terminal region of Mouse Sirt3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	304-334
Sequence Length	257
Applicable Applications for anti-Sirt3 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	NAD-dependent protein deacetylase. Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues. Known targets include ACSS1, IDH, GDH, PDHA1, SOD2, LCAD, SDHA and the ATP synthase subunit ATP5O. Contributes to the regulation of the cellular energy metabolism. Important for regulating tissue-specific ATP levels.
Cellular Location	Isoform L: Mitochondrion matrix.
Tissue Location	Strongly expressed in liver and kidney. Weakly expressed in lung.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

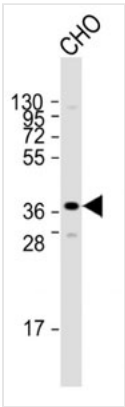
IMAGES



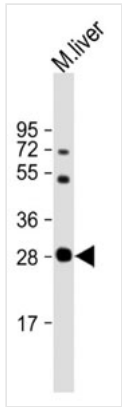
IHC (Immunohistochemistry)
Sirt3 Antibody (C-term) IHC analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the Sirt3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Anti-Mouse Sirt3 Antibody (C-term) at 1:2000 dilution + mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDm/TBST



WB (Western Blot)
Anti-Sirt3 Antibody (C-term) at 1:2000 dilution + CHO whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)
Anti-Sirt3 Antibody (C-term) at 1:64000 dilution + mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-Sirt3 antibody	SIRT3 is 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 SIRT3 is included in class I of the sirtuin family.
Product Categories/Family for anti-Sirt3 antibody	Crown Antibodies; Cancer; Cardiovascular; Cell Biology; Metabolism; Neuroscience; Signal Transduction
References	Hirschey, M.D., et al. Nature 464(7285):121-125(2010) Pillai, V.B., et al. J. Biol. Chem. 285(5):3133-3144(2010) Kim, H.S., et al. Cancer Cell 17(1):41-52(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	188219522
NCBI GeneID	64384
NCBI Accession #	NP_001120823.1; NP_001171275.1; NP_071878.2
NCBI GenBank Nucleotide #	NM_001127351.1

UniProt Accession #	Q8R104 ; Q9EPA8 ; B9W0A9 ; C6ZII7
Molecular Weight	36615
NCBI Official Full Name	NAD-dependent protein deacetylase sirtuin-3 isoform 1
NCBI Official Synonym Full Names	sirtuin 3
NCBI Official Symbol	Sirt3
NCBI Official Synonym Symbols	Sir2l3; AI848213; 2310003L23Rik
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-3
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-3
UniProt Gene Name	Sirt3
UniProt Synonym Gene Names	Sir2l3; mSIR2L3
UniProt Entry Name	SIR3_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/m-sirt3-antibody-immunohistochemistry-western-blot-elisa/288158>