

M Sirt3 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP6242b**Specification****M Sirt3 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q8R104](#)
Other Accession [NP_071878.2](#)**M Sirt3 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 64384**Other Names**NAD-dependent protein deacetylase
sirtuin-3, 351-, Regulatory protein SIR2
homolog 3, SIR2-like protein 3, mSIR2L3,
Sirt3, Sir2I3**Format**Peptides are lyophilized in a solid powder
format. Peptides can be reconstituted in
solution using the appropriate buffer as
needed.**Storage**Maintain refrigerated at 2-8°C for up to 6
months. For long term storage store at
-20°C.**Precautions**This product is for research use only. Not
for use in diagnostic or therapeutic
procedures.**M Sirt3 Antibody (C-term) Blocking peptide - Protein Information****Name** Sirt3**Synonyms** Sir2I3**Function**NAD-dependent protein deacetylase
(PubMed:23835326,
PubMed:<a href="http://www.uniprot.org/ci**M Sirt3 Antibody (C-term) Blocking peptide - Background**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.**M Sirt3 Antibody (C-term) Blocking peptide - 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)

tations/17923681"
target="_blank">17923681,
PubMed:<a href="http://www.uniprot.org/ci
tations/18794531"
target="_blank">18794531,
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tations/21172655"
target="_blank">21172655,
PubMed:<a href="http://www.uniprot.org/ci
tations/26620563"
target="_blank">26620563). Activates
or deactivates mitochondrial target
proteins by deacetylating key lysine
residues (PubMed:<a href="http://www.uniprot.org/c
itations/23835326"
target="_blank">23835326,
PubMed:<a href="http://www.uniprot.org/ci
tations/17923681"
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tations/18794531"
target="_blank">18794531,
PubMed:<a href="http://www.uniprot.org/ci
tations/21172655"
target="_blank">21172655). Known
targets include ACSS1, IDH, GDH, PDHA1,
SOD2, LCAD, SDHA and the ATP synthase
subunit ATP5PO (PubMed:<a href="http://w
ww.uniprot.org/citations/16790548"
target="_blank">16790548,
PubMed:<a href="http://www.uniprot.org/ci
tations/18794531"
target="_blank">18794531,
PubMed:<a href="http://www.uniprot.org/ci
tations/21172655"
target="_blank">21172655).
Contributes to the regulation of the cellular
energy metabolism (PubMed:<a href="http:
//www.uniprot.org/citations/23835326"
target="_blank">23835326).
Important for regulating tissue-specific ATP
levels (PubMed:<a href="http://www.unipro
t.org/citations/18794531"
target="_blank">18794531,
PubMed:<a href="http://www.uniprot.org/ci
tations/24252090"
target="_blank">24252090). In
response to metabolic stress, deacetylates
transcription factor FOXO3 and recruits
FOXO3 and mitochondrial RNA polymerase
POLRMT to mtDNA to promote mtDNA
transcription (PubMed:<a href="http://www.
uniprot.org/citations/23283301"
target="_blank">23283301). Acts as a
regulator of ceramide metabolism by
mediating deacetylation of ceramide
synthases CERS1, CERS2 and CERS6,

thereby increasing their activity and promoting mitochondrial ceramide accumulation (PubMed:26620563).

Cellular Location

[Isoform L]: Mitochondrion matrix

Tissue Location

Strongly expressed in liver and kidney (PubMed:11056054). Expressed in skeletal muscles (at protein level)

(PubMed:23283301, PubMed:23835326).

Weakly expressed in lung

(PubMed:11056054).

M Sirt3 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)