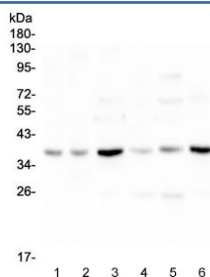


## SIRT4 Antibody (RQ4960)

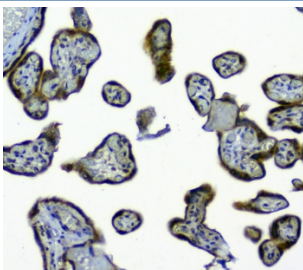
Catalog No.	Formulation	Size
RQ4960	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

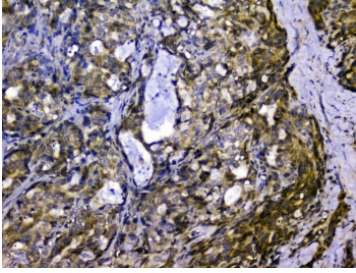
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q9Y6E7
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This SIRT4 antibody is available for research use only.



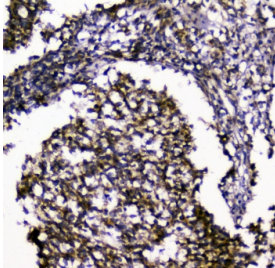
Western blot testing of 1) rat brain, 2) rat heart, 3) rat liver, 4) mouse brain, 5) mouse heart and 6) mouse liver lysate with SIRT4 antibody at 0.5ug/ml. Predicted molecular weight ~35 kDa.



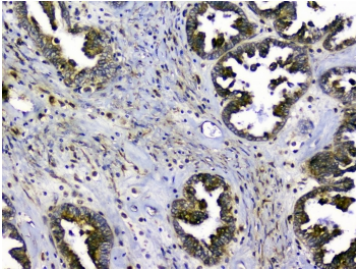
IHC staining of FFPE human placental tissue with SIRT4 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



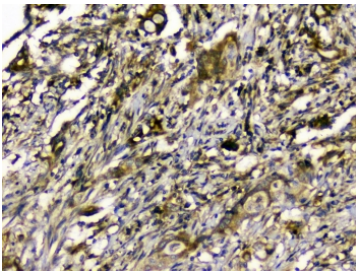
IHC staining of FFPE human stomach cancer with SIRT4 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



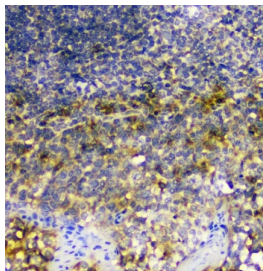
IHC staining of FFPE human glioma with SIRT4 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human ovarian cancer with SIRT4 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human rectal cancer with SIRT4 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human tonsil with SIRT4 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

## Description

Sirtuin 4, also known as SIRT4, is a protein which in humans is encoded by the SIRT4 gene. 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.

## Application Notes

Optimal dilution of the SIRT4 antibody should be determined by the researcher.

## Immunogen

Amino acids HLKPDVFFGDTVNPDKVDFVHKRVKEAD from the human protein were used as the immunogen for the SIRT4 antibody.

## Storage

After reconstitution, the SIRT4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.