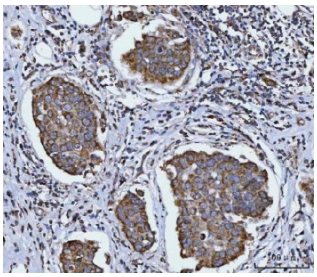
Sirtuin 5 Antibody / SIRT5 (RQ7422)

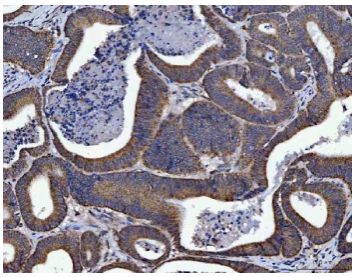
Catalog No.	Formulation	Size
RQ7422	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

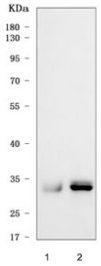
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NXA8
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Sirtuin 5 antibody is available for research use only.



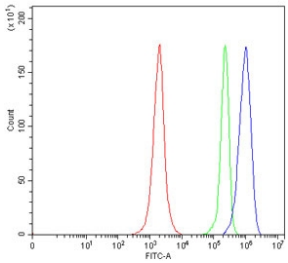
IHC staining of FFPE human breast cancer tissue with Sirtuin 5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



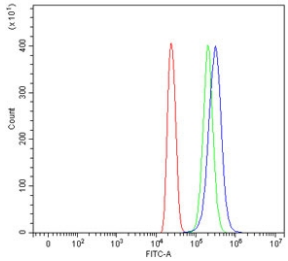
IHC staining of FFPE human colorectal adenocarcinoma tissue with Sirtuin 5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HCCT and 2) HCCP cell lysate with Sirtuin 5 antibody. Predicted molecular weight 32-34 kDa with a smaller, ~22 kDa isoform.



Flow cytometry testing of human Jurkat cells with Sirtuin 5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Sirtuin 5 antibody.



Flow cytometry testing of human HL60 cells with Sirtuin 5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Sirtuin 5 antibody.

Description

Sirtuin (silent mating type information regulation 2 homolog) 5 (S. cerevisiae), also known as SIRT5 is a protein which in humans in encoded by the SIRT5 gene and in other species by the orthologous Sirt5 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 III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants.

Application Notes

Optimal dilution of the Sirtuin 5 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids D81-S310) was used as the immunogen for the Sirtuin 5 antibody.

Storage

After reconstitution, the Sirtuin 5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.