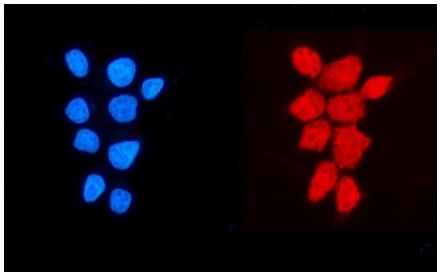
NDUFB5 Antibody (RQ6145)

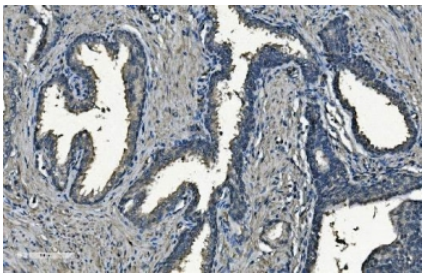
Catalog No.	Formulation	Size
RQ6145	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

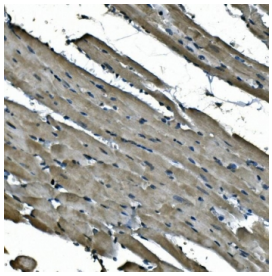
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O43674
Localization	Nuclear, cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This NDUFB5 antibody is available for research use only.



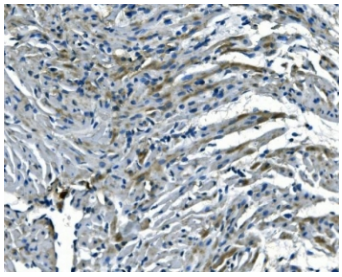
Immunofluorescent staining of FFPE human MCF7 cells with NDUFB5 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



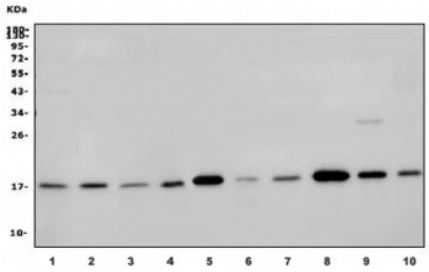
IHC staining of FFPE human prostate cancer with NDUFB5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



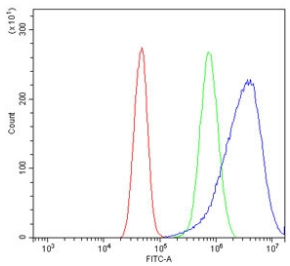
IHC staining of FFPE mouse heart with NDUFB5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat heart with NDUFB5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) MCF7, 3) ThP-1, 4) A431, 5) rat heart, 6) rat kidney, 7) rat liver, 8) mouse heart, 9) mouse kidney and 10) mouse liver lysate with NDUFB5 antibody. Predicted molecular weight ~22 kDa (isoform 1), ~16 kDa (isoform 2).



Flow cytometry testing of human A431 cells with NDUFB5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NDUFB5 antibody.

Description

NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa is a protein that in humans is encoded by the NDUFB5 gene. The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Three transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the NDUFB5 antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids F32-N189) was used as the immunogen for the NDUFB5 antibody.

Storage

After reconstitution, the NDUFB5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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