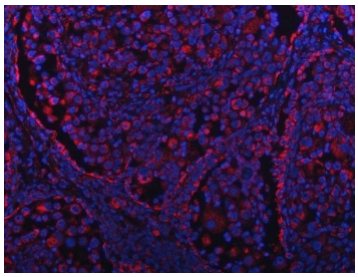
GRIM19 Antibody / NDUFA13 (RQ8081)

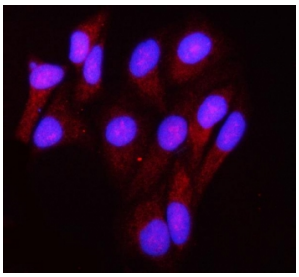
Catalog No.	Formulation	Size
RQ8081	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

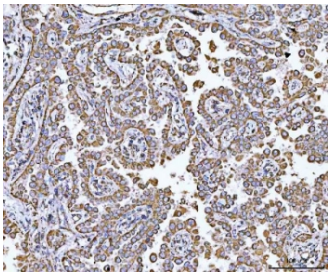
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9P0J0
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This GRIM19 antibody is available for research use only.



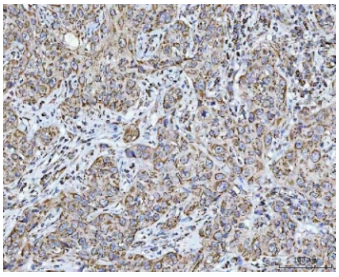
Immunofluorescent staining of FFPE human lung cancer tissue with GRIM19 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



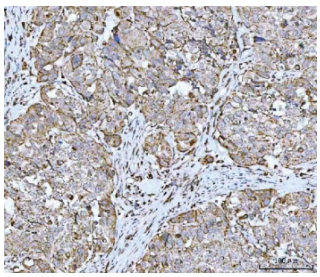
Immunofluorescent staining of FFPE human U-2 OS cells with GRIM19 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



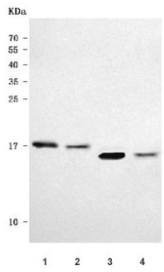
IHC staining of FFPE human lung cancer tissue with GRIM19 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



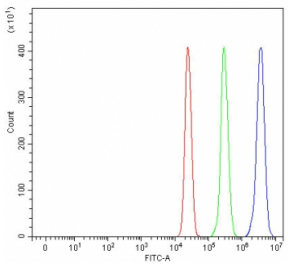
IHC staining of FFPE human squamous cell carcinoma of the skin with GRIM19 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human urothelial carcinoma with squamous differentiation with GRIM19 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) mouse heart and 4) mouse skeletal muscle tissue lysate with GRIM19 antibody. Predicted molecular weight ~17 kDa.



Flow cytometry testing of fixed and permeabilized human U937 cells with GRIM19 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GRIM19 antibody.

Description

NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13 is an enzyme that in humans is encoded by the NDUFA13 gene. This gene encodes a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain. The protein is required for complex I assembly and electron transfer activity. The protein binds the signal transducers and activators of transcription 3 (STAT3) transcription factor, and can function as a tumor suppressor. The human protein purified from mitochondria migrates at approximately 16 kDa. Transcripts originating from an upstream promoter and capable of expressing a protein with a longer N-terminus have been found, but their biological validity has not been determined.

Application Notes

Optimal dilution of the GRIM19 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-T144) was used as the immunogen for the GRIM19 antibody.

Storage

After reconstitution, the GRIM19 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.