ATPase subunit F6 Antibody / ATP5PF (F54650)

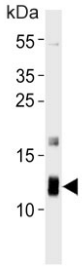
Catalog No.	Formulation	Size
F54650-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54650-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

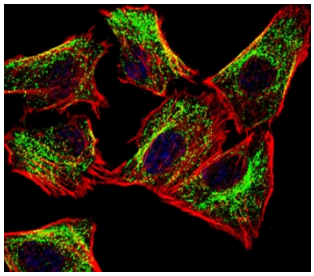
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
UniProt	P18859
Localization	Cytoplasmic
Applications	Western blot: 1:500-1:2000 Immunofluorescence: 1:25 Immunohistochemistry (FFPE): 1:25
Limitations	This ATPase subunit F6 antibody is available for research use only.



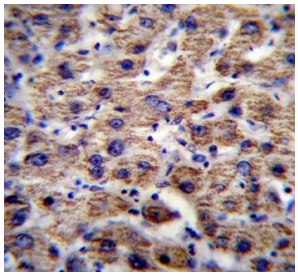
Western blot testing of mouse stomach tissue lysate with ATPase subunit F6 antibody. Predicted molecular weight ~13 kDa.



Western blot testing of rat heart tissue lysate with ATPase subunit F6 antibody. Predicted molecular weight ~13 kDa.



Immunofluorescent staining of human U-251 MG cells with ATPase subunit F6 antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



IHC testing of FFPE human liver tissue with ATPase subunit F6 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the F6 subunit of the Fo complex, required for F1 and Fo interactions. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. A pseudogene exists on chromosome Yp11.

Application Notes

The stated application concentrations are suggested starting points. Titration of the ATPase subunit F6 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 28-56 from the human protein was used as the immunogen for the ATPase subunit F6 antibody.

Storage

Aliquot the ATPase subunit F6 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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