Anti-ATP5PD antibody

Cat. No.	ml125725
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-ATP5PD rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human ATP5PD
Reactivity	Human, Mouse
Content	1.62 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	ATP5PD
Full name	ATP synthase peripheral stalk subunit d
Synonyms	ATPQ; ATP5H
Swissprot	O75947

Target Background

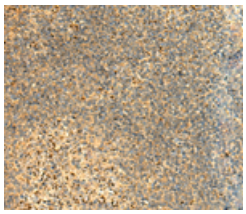
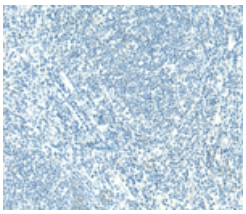
Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises 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 d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15.

Applications

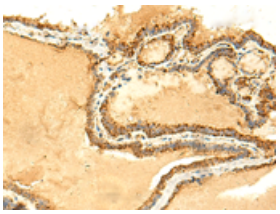
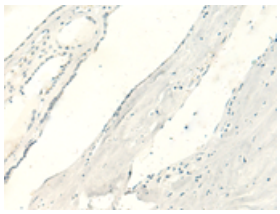
Immunohistochemistry

Predicted cell location: Cytoplasm and Cell membrane
Positive control: Human tonsil
Recommended dilution: 50-300

Predicted cell location: Cytoplasm and Cell membrane
Positive control: Human thyroid cancer
Recommended dilution: 50-300

The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using ml125725(ATP5PD Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

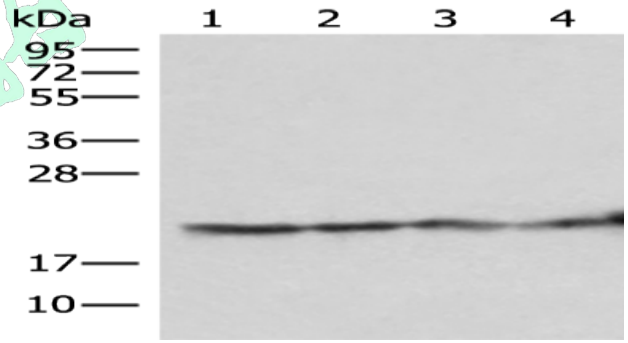



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml125725(ATP5PD Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:18 kDa
Positive control:Hela, HepG2, Jurkat and PC3 cell, Mouse kidney tissue lysates
Recommended dilution: 500-2000

Gel: 12%SDS-PAGE
Lysate: 40 μg
Lane 1-5: Hela, HepG2, Jurkat and PC3 cell, Mouse kidney tissue lysates
Primary antibody: ml125725(ATP5PD Antibody) at dilution 1/550
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 3 seconds



ELISA

Recommended dilution: 5000-10000

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