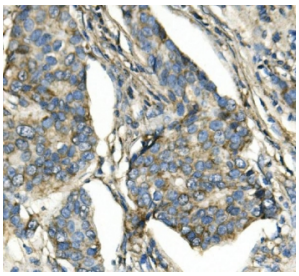
# ATP5H Antibody [clone 6B12] (RQ6031)

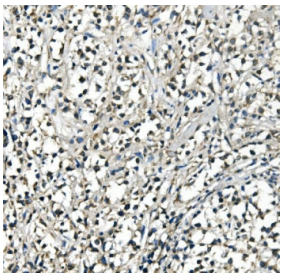
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6031 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

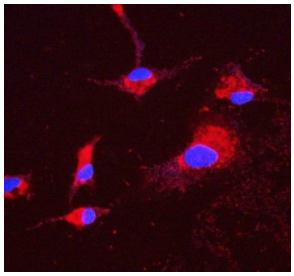
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat, Monkey |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b |
| **Clone Name** | 6B12 |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | O75947 |
| **Localization** | Cytoplasmic |
| **Applications** | Western blot: 0.5-1ug/ml<br>Immunohistochemistry: 1-2ug/ml<br>Immunofluorescence: 2-4ug/ml |
| **Limitations** | This ATP5H antibody is available for research use only. |



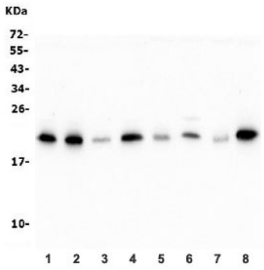
IHC staining of FFPE human breast cancer with ATP5H antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lymphocytic tumor tissue with ATP5H antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human A549 cells with ATP5H antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




Western blot testing of human 1) HeLa, 2) HepG2, 3) U-87 MG, 4) A549, 5) monkey COS-7, 6) human SW620, 7) rat PC-12 and 8) mouse ANA-1 lysate with ATP5H antibody. Expected molecular weight: ~22 kDa.

## Description

ATP5H is also known as ATPQ. 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.

## Application Notes

Optimal dilution of the ATP5H antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids A2-L161) was used as the immunogen for the ATP5H antibody.

## Storage

After reconstitution, the ATP5H 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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