

ARG55614 anti-ATP5H antibody

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|--------------------------------------------------------------------------------------|
| Product Description | Rabbit Polyclonal antibody recognizes ATP5H |
| Tested Reactivity | Hu |
| Predict Reactivity | Bov |
| Tested Application | FACS, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | ATP5H |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide corresponding to aa. 68-97 (Center) of Human ATP5H. |
| Conjugation | Un-conjugated |
| Alternate Names | ATPQ; ATP synthase subunit d, mitochondrial; ATPase subunit d |

Application Instructions

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|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Application table | Application | Dilution |
| | FACS | 1:10 - 1:50 |
| | IHC-P | 1:50 - 1:100 |
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | HepG2 | |

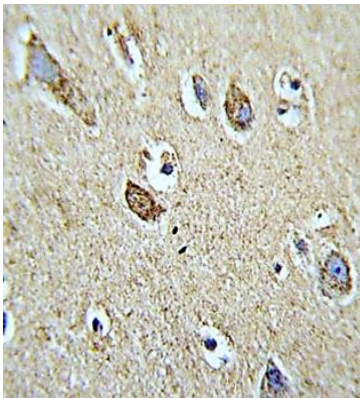
Properties

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| Form | Liquid |
| Purification | Purification with Protein A and immunogen peptide. |
| Buffer | PBS and 0.09% (W/V) Sodium azide |
| Preservative | 0.09% (W/V) Sodium azide |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Database links | GeneID: 10476 Human Swiss-port # O75947 Human |
| Gene Symbol | ATP5H |
| Gene Full Name | ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit d |
| 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, F ₁ , and the membrane-spanning component, F ₀ , which comprises the proton channel. The F ₁ 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 F ₀ seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the F ₀ 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. [provided by RefSeq, Jun 2010] |
| Function | Mitochondrial membrane ATP synthase (F ₁ F ₀ ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F ₁ - containing the extramembraneous catalytic core, and F ₀ - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F ₁ is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F ₀ domain and the peripheral stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements. [UniProt] |
| Research Area | Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody |
| Calculated Mw | 18 kDa |
| Cellular Localization | Mitochondrion. Mitochondrion inner membrane. |

Images

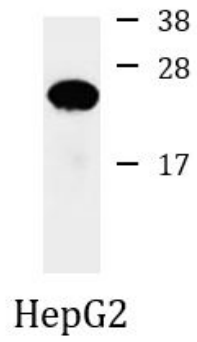


ARG55614 anti-ATP5H antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG55614 anti-ATP5H antibody.

ARG55614 anti-ATP5H antibody WB image

Western blot: 35 µg of HepG2 cell lysate stained with ARG55614 anti-ATP5H antibody.



ARG55614 anti-ATP5H antibody FACS image

Flow Cytometry: HepG2 cells stained with ARG55614 anti-ATP5H antibody (right histogram) or without primary antibody as control (left histogram), followed by incubation with FITC labelled secondary antibody.

