

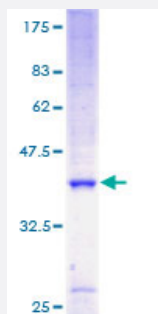
Full-Length

ATP5J2 (Human) Recombinant Protein (P01)

Catalog # H00009551-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATP5J2 full-length ORF (AAH03678, 1 a.a. - 94 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MASVGECPAPVPVKDKKLLLEVKLLLEPSWILMRDFSPSGIFGAFQRGYYRYNKNYINVKKGSISGIT MVLACYVLFSYSFSYKHLKHERLRKYH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.08
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ATP5J2

Entrez GeneID [9551](#)

GeneBank Accession# [BC003678](#)

Protein Accession# [AAH03678](#)

Gene Name ATP5J2

Gene Alias ATP5JL

Gene Description ATP synthase, H⁺ transporting, mitochondrial F₀ complex, subunit F2

Gene Ontology [Hyperlink](#)

Gene Summary 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, F₀, which comprises the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the f subunit of the F₀ complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. This gene has multiple pseudogenes. [provided by RefSeq]

Other Designations ATP synthase f chain, mitochondrial|ATP synthase, H⁺ transporting, mitochondrial F₀ complex, subunit f, isoform 2|F₁F₀-ATP synthase complex Fo membrane domain f subunit|F₁F₀-ATPase synthase f subunit

Pathway

- [Metabolic pathways](#)

- [Oxidative phosphorylation](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)