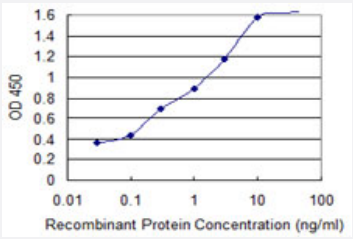
ATP5E monoclonal antibody (M02), clone 1A8

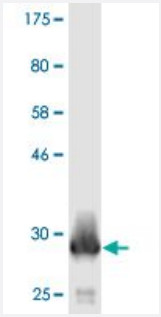
Catalog # H00000514-M02 Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ATP5E is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (31.35 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant ATP5E.
Immunogen	ATP5E (AAH01690, 1 a.a. ~ 51 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MVAYWRQAGLSYIRYSQICAKAVRDALKTEFKANAEKTSGSNVKIVKVKKE
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (31.35 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged ATP5E is 0.03 ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — ATP5E

Entrez GeneID	514
GeneBank Accession#	BC001690
Protein Accession#	AAH01690
Gene Name	ATP5E
Gene Alias	ATPE, MGC104243
Gene Description	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit
Omim ID	606153
Gene Ontology	Hyperlink

Gene Summary	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising 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 a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the epsilon subunit of the catalytic core. Two pseudogenes of this gene are located on chromosomes 4 and 13. [provided by RefSeq
Other Designations	F(0)F(1)-ATPase|H(+)-transporting two-sector ATPase|OTTHUMP00000031404|OTTHUMP00000174442|OTTHUMP00000174443|mitochondrial ATP synthase epsilon chain|mitochondrial ATPase

Pathway

- Metabolic pathways
- Oxidative phosphorylation