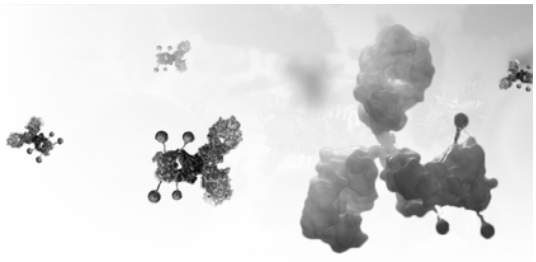

Anti-ATP5A1 (internal region) polyclonal antibody (DPABH-09153)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites.
Immunogen	Synthetic peptide, conjugated to KLH, from internal sequence amino acids of Human ATP5A (NP_004037.1).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Human
Purification	Protein A purified
Conjugate	Unconjugated
Applications	WB, IHC-P, ELISA
Format	Liquid
Size	50 µg

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Buffer	pH: 7.40; Constituents: 50% Glycerol, 0.88% Sodium chloride, 49% PBS. PBS (without Mg2+and Ca2+)
Preservative	0.02% Sodium Azide
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	ATP5A1 ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 2, cardiac muscle [Homo sapiens]
Official Symbol	ATP5A1
Synonyms	ATP5A1; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; OMR; ORM; ATPM; MOM2; ATP5A; hATP1; MC5DN4; ATP5AL2; HEL-S-123m; ATP synthase subunit alpha, mitochondrial; ATP sythase (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; epididymis secretory sperm binding protein Li 123m; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2;
Entrez Gene ID	498
Protein Refseq	NP_001001935.1
UniProt ID	P25705
Pathway	Alzheimers disease; Electron Transport Chain; F-type ATPase, eukaryotes; Huntingtons disease
Function	ATP binding; contributes_to ATPase activity; MHC class I protein binding; poly(A) RNA binding

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