

ATP5A1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9777c

Product Information

Application	WB, IHC-P, E
Primary Accession	P25705
Other Accession	P15999 , Q03265 , P19483
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24575
Antigen Region	477-503

Additional Information

Other Names	ATP synthase subunit alpha, mitochondrial, ATP5A1, ATP5A, ATP5AL2, ATPM
Target/Specificity	This ATP5A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 477-503 amino acids from the C-terminal region of human ATP5A1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ATP5A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

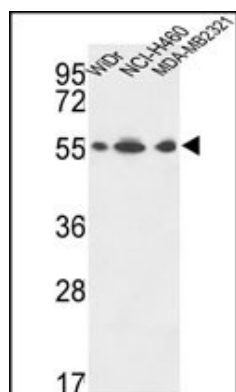
This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic 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 alpha subunit of the catalytic core.

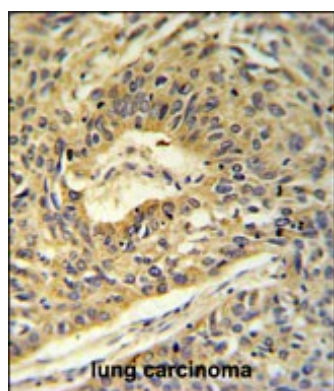
References

Pandey, N.R., et al. Am. J. Pathol. 175(4):1777-1787(2009)
Seth, R., et al. J. Clin. Pathol. 62(7):598-603(2009)
Law, I.K., et al. Proteomics 9(9):2444-2456(2009)
Martins-de-Souza, D., et al. BMC Psychiatry 9, 17 (2009)

Images



ATP5A1 Antibody (C-term) (Cat. #AP9777c) western blot analysis in WiDr, NCI-H460, MDA-MB231 cell line lysates (35ug/lane). This demonstrates the ATP5A1 antibody detected the ATP5A1 protein (arrow).



ATP5A1 Antibody (C-term) (Cat. #AP9777c) IHC analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATP5A1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.