

ATP synthase (Complex V) subunit alpha monoclonal antibody

Catalog no. 459240

(See product label for lot information)

Product Description

100 µg monoclonal antibody

Clone/PAD: 7H10BD4F9
Isotype: Mouse IgG2b, k
Qty: 100 µg

Concentration

1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% Sodium Azide as a preservative.

mAb Purity

Near homogeneity as judged by SDS-PAGE. The antibody was produced *in vitro* using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.

Validation

See www.invitrogen.com/antibodies for protocols
Validated for use in Western blotting and Immunocytochemistry .

1-2 µg/mL for Western blotting
5 µg/mL for Immunocytochemistry

Other applications are not tested.

Reactivity

This product had been directly tested for reactivity with human, bovine, mouse, rat, zebrafish.

Immunogen

Bovine Complex V

Storage

Store at 4°C. Do not freeze.

Expiration Date

See the product label.

Background

Complex V, also called F1F0ATPase or ATP synthase, is responsible for ATP production in oxidative phosphorylation and can work in reverse as a proton pumping ATPase. The enzyme was thought to be localized exclusively to mitochondria. However, it has recently been identified on the plasma membrane of several cell types including hepatocytes where it functions as the HDL receptor, on endothelial cells where it may act as the angiotensin receptor, and on the surface of cancer cells.

The enzyme in mammals is composed of 17 subunits, five of which make up the easily detached F1. The remainder subunits are components of two stalk domains and the proton pumping F0 part of the machinery. Two of the subunits of the F0 part are encoded on mitochondrial DNA while the other subunits are nuclear encoded. Mutations in the mitochondrial-encoded subunits of ATP synthase (Complex V) cause OXPHOS disease.

Explanation of symbols			
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised represe
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		



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Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com