CREATIVE BIOMART®
Assay Kit

Mitochondrial Protein IP Kit

Product Information

Cat

Kit-2398

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Product Overview

Mitochondria are the power house of the cells and play an essential role in energy production. Damage to the mitochondria activates signaling pathways that induce apoptosis. Mitochondria also regulate and mediate transport of the metabolites and ions needed for oxidative phosphorylation and maintenance of membrane potential for ATP synthesis. Mitochondrial dysfunction leads to several disorders like cardiac dysfunction, diabetes, aging and neurological disorder, mainly caused by mutations in mitochondrial DNA or in nuclear genes that code for mitochondrial components. Thus, mitochondria have several different functions in the cell. ready to use mitochondria Protein IP Buffer is optimized for immunoprecipitation (IP and co-IP) using mitochondria and mitochondrial extracts. The buffer is a gentle formulation, which maintains the stability of mitochondrial complexes. The Mitochondrial Protein IP kit is provided with different choices of detergents like n-Dodecyl-beta-D-maltoside, Triton X-100 and digitonin to achieve different stringency conditions for protein-protein interaction studies. Triton X-100 is the most commonly used detergent especially for membrane protein solubilization. However, in case of fragile complexes digitonin or n-Dodecyl-beta-D-maltoside is the choice of detergents.

Applications

Optimized for compatibility with immunoprecipitation (IP and co-IP) and pull-down using tagged proteins.Gentle formulation for maintenance of stable mitochondrial complexes.Compatible with SDS PAGE, 2D gel, Blue-Native gel, Mass spectrometry. Functional Assays and enzymatic assays.

Storage

-20°C

Shipping

Gel Pack

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Assay Kit

Mitochondrial Protein IP Kit

Size

50 assays

Kit Components

Mitochondria Protein IP Buffer; Wash Buffer (5X); Protease Inhibitor Cocktail; 10% n-Dodecyl-beta-D-maltoside; 10% Triton X-100; 10% Digitonin

Features & Benefits

Simple & convenient protocol; The Kit provides unique formulation of ready-to-use buffers & reagents for IP/Co-IP/Pull down of mitochondrial proteins or complexes.

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