abcam

Product datasheet

Complex IV Human Specific Activity Microplate Assay Kit ab109910

11 References 3 Images

Overview

Product name Complex IV Human Specific Activity Microplate Assay Kit

Detection methodColorimetric

Sample type Cell culture extracts, Tissue

Assay type Enzyme activity

Species reactivity Reacts with: Human

Product overview This rapid multiplexing microplate kit is used to determine both the activity and quantity of

cytochrome c oxidase in a human sample with greater speed and simplicity. The ratio of the two is a measure of specific activity. The COX enzyme is immunocaptured within the wells of the microplate and the activity is determined by following the oxidation of reduced Cytochrome c colorimetrically by the absorbance change at 550 nm. Subsequently, in these same wells the quantity of the enzyme can then be determined by adding a COX specific detector antibody and the appropriate alkaline phophatase conjugated antibody; this phosphatase changes a substrate from colorless to yellow at 405 nm. This reaction takes place in a time dependent manner proportional to the amount of protein captured in the wells. Included in this kit for performance of the multiplexing assay are buffers, detergent, substrates, and 96-well microplate with monoclonal antibody pre-bound to the wells of the plate, allowing for a stream-lined assay.

Notes Range of complex IV / cytochrome c oxidase assay kits

Biochemical assay - ab239711

Immunocapture with biochemical assay (plate-based)*** - <u>ab109911 (rodent)</u> and <u>ab109909 (human)</u>

*** Most popular assay format

Immunocapture with biochemical assay (dipstick) - ab109878 (rodent) and ab109876 (human)

Immunocapture with biochemical assay and ELISA - ab109910 (human) (this kit)

ELISA - ab179880 (human)

Other related products

Review the <u>mitochondrial assay guide</u>, or the full <u>metabolism assay guide</u> to learn about more assays for metabolites, metabolic enzymes, mitochondrial function, and oxidative stress,

and also how to assay metabolic function in live cells using your plate reader.

Platform Microplate reader

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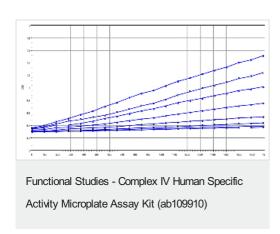
Properties

Storage instructions

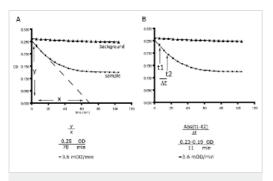
Please refer to protocols.

Components	Identifier	96 tests
20X Buffer		1 x 15ml
96-well microplate (12 strips)		1 unit
AP Development Reagent		1 x 400µl
AP label 2500X	Tube B	1 x 12µl
Detector antibody	Tube A	1 x 1ml
Detergent		1 x 1ml
Development buffer	Tube 3	1 x 10ml
Reagent C (Reduced Cytochrome c)		1 x 1ml
Wash Buffer	Tube 2	1 x 2ml

Images

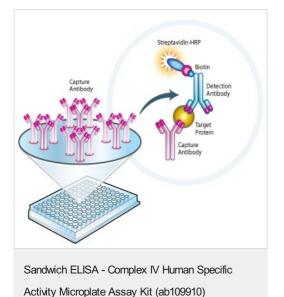


Functional study using Complex IV Human Specific Activity Microplate Assay Kit (ab109910).



Functional Studies - Complex IV Human Specific Activity Microplate Assay Kit (ab109910)

Functional study using Complex IV Human Specific Activity Microplate Assay Kit (ab109910).



Principle of Sandwich ELISA.

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