

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human COX4-I2 in direct ELISAs. In Western blots, 100% cross-reactivity with recombinant human (rh) COX4-I1 and no cross-reactivity with rhCOX-1 or rhCOX-2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 673803
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E.coli-derived recombinant human COX4-I2 Asn39-Lys171 Accession # Q96KJ9
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

COX4-I2 (Cytochrome c oxidase subunit 4) is a 21-22 kDa member of the Cytochrome c oxidase IV family of proteins and is predominantly expressed in lung. It is a component of COX, an inner mitochondrial membrane multimeric dimer that catalyzes the transfer of electrons from Cytochrome c to dioxygen. COX4-I2 is induced following blockade of mitochondrial respiration, leading to increased production of reactive oxygen species and necrosis. The ubiquitously expressed COX4-I1 is the product of a different gene and shares only 50% aa identity with COX4-I2. Within aa 39-171 (the oxidase domain), human COX4-I2 shares 84% and 81% aa sequence identity with mouse and rat COX4-I2, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.