

Complex IV subunit II monoclonal antibody

CATALOG #: A6404

COMPONENTS: 100 µg monoclonal antibody

APPLICATIONS: Western blotting and Immunocytochemistry 12C4F12

CLONE ID OF

MONOCLONAL ANTIBODY

(mAb):

SPECIES CROSS-

REACTIVITY:

human

HOST SPECIES AND

ISOTYPE:

Mouse IgG2a, k

IMMUNOGEN: Human Complex IV subunit II, from SDS-PAGE

CONCENTRATION: 1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% azide as a preservative

SUGGESTED WORKING

CONCENTRATION:

1 μg/mL for Western blotting and 5–10 μg/mL for Immunocytochemistry

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.

STORAGE CONDITIONS: Store at 4°C. Do not freeze.

BACKGROUND:

Cytochrome c oxidase is the fourth complex in the respiratory chain and is responsible for catalyzing the conversion of O2 to H₂O. Subunit 2 of the cytochrome c oxidase complex combines with two other subunits (1 and 3) to form a core protein structure that performs many functions of the enzyme. The metallic copper center of this subunit transfers electrons to the heme center of subunit 1, which results in the movement of electrons from cytochrome c to the heme A3 and copper B metallic center of complex IV.

Defects in subunit 2 of cytochrome c oxidase can result in COX deficiency, which causes a wide range of symptoms from local myopathy to multiple system pathologies that begin between infancy and adulthood. Abnormalities in this subunit are also associated with tumor development.

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