

TECHNICAL DATA SHEET**Catalog # MS410****Complex IV subunit Vb monoclonal antibody**

Rev.0

LOT #:

COMPONENTS: 100 µg monoclonal antibody

APPLICATIONS: Western blotting

CLONE ID OF MONOCLONAL
ANTIBODY (mAb): 16H12H9

SPECIES CROSS-REACTIVITY: human, bovine, mouse, rat

HOST SPECIES AND ISOTYPE: Mouse IgG2b, k

IMMUNOGEN: Bovine Complex IV (native holoenzyme protein, purified from heart)

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

SUGGESTED WORKING
CONCENTRATION: 1 µg/mL for Western blottingmAb 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.

COUNTRY OF ORIGIN: USA

BACKGROUND:

Complex IV, also called cytochrome *c* oxidoreductase or cytochrome *c* oxidase, is a complex of 13 different subunits, three of which (I, II and III) are encoded on mitochondrial DNA and the remainder in the nuclear DNA. The complex contains two heme groups (*a* and *a*₃) and two copper atoms as prosthetic groups. Genetic alterations of this enzyme complex are a common cause of OXPHOS diseases and the enzyme is altered in patients with Alzheimer's disease. Also, there are reports of reduced amounts of this complex in hypoxic cancer cells.

Note: This product is for research purposes only. It is not to be used in humans or for diagnostic purposes.

WARRANTY – MitoSciences Inc warrants that products will perform as indicated in the published Technical Data Sheet for 6 months from date of purchase when stored according to specifications and when used consistent with recommended protocols. If you experience results which materially differ from those described, send evidence of the non-performing product for replacement of the original product purchased or a credit toward any other of the company's products or services.