

TECHNICAL DATA SHEET**Catalog # MS419****Complex IV subunit II (Cox2p) monoclonal antibody for yeast**

Rev.1

LOT #:

COMPONENTS:	100 µg monoclonal antibody
APPLICATIONS:	Western blotting
CLONE ID OF MONOCLONAL ANTIBODY (mAb):	4B12A5
SPECIES CROSS-REACTIVITY:	<i>S. cerevisiae</i>
HOST SPECIES AND ISOTYPE:	Mouse IgG2a, k
CONCENTRATION:	1 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.
SUGGESTED WORKING CONCENTRATION:	2 µg/mL for Western blotting
mAb PURITY:	Near homogeneity as judged by SDS-PAGE. The antibody was produced <i>in vitro</i> 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.

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