

TECHNICAL DATA SHEET**Catalog # MS415****Complex IV subunit VIIaHL monoclonal antibody**

Rev.0

LOT #:**COMPONENTS:** 250 µg monoclonal antibody**APPLICATIONS:** Western blotting**CLONE ID OF MONOCLONAL ANTIBODY (mAb):** 6D7G8E5BH11**SPECIES CROSS-REACTIVITY:** bovine and rat (Cross-reacts weakly with human)**HOST SPECIES AND ISOTYPE:** Mouse IgG2a, k**IMMUNOGEN:** Bovine Heart Complex IV**CONCENTRATION:** 1 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.**SUGGESTED WORKING CONCENTRATION:** 10 µg/mL for Western blotting**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.**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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