

TECHNICAL DATA SHEET**Catalog # MS201****Complex II Immunocapture Kit**

Rev.1

LOT #:**COMPONENTS:** 250 µg monoclonal antibody irreversibly cross-linked to protein G-agarose beads**APPLICATIONS:** Immunoprecipitation**CLONE ID OF MONOCLONAL ANTIBODY (mAb):** 4H12BG12AG2**SPECIES CROSS-REACTIVITY:** human, bovine, rat, mouse**HOST SPECIES AND ISOTYPE:** Mouse IgG1, κ**IMMUNOGEN:** Bovine Heart Complex II, with traces of Complex III**CONCENTRATION:** 250 µg of capture antibody cross-linked to 25 µL matrix in 400 µL HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.**SUGGESTED WORKING CONCENTRATION:** 10 µL matrix capture approximately 5 µg complex II from 1 mg solubilized bovine heart mitochondria.**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 II is also called succinate ubiquinone oxidoreductase or more commonly succinate dehydrogenase complex. This complex is composed of four nuclear encoded subunits and contains a flavin (FAD), non-heme iron centers and a b-type cytochrome as prosthetic groups. It is both a component of the electron transport chain and an enzyme of the Krebs cycle. Complex II deficiencies are seen in OXPHOS genetic disease and found in a type of cancer called paraganglioma.

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.