



Anti-Complex II 70 kDa Fp Subunit Monoclonal Antibody

CATALOG #:	459200
COMPONENTS:	100 µg monoclonal antibody
APPLICATIONS:	Western blotting and Immunocytochemistry (heat-induced antigen-retrieval improves signal)
CLONE ID OF MONOCLONAL ANTIBODY (mAb):	2E3GC12FB2AE2
SPECIES CROSS-REACTIVITY:	human, bovine, rat, mouse, <i>C. elegans</i>
HOST SPECIES AND ISOTYPE:	Mouse IgG1, k
IMMUNOGEN:	Bovine Heart Complex II, with traces of Complex III
CONCENTRATION:	1 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.
SUGGESTED WORKING CONCENTRATION:	0.1 µg/mL for Western blotting, 0.2 µg/mL for Immunocytochemistry
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 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.

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