

PRODUCT TECHNICAL SPECIFICATIONS
Catalog # MS603
MitoProfile[®] Blue Native OXPHOS Complexes Detection Kit

03-08

LOT #:
COMPONENTS:

300 µg monoclonal antibody

Antigen	Cat #	Clone ID	Amount (µg)	Final conc. (µg/mL)	Immunogen
C-I-39 (NDUFA9)	MS111	20C11B11B11	120	2	Bovine Heart Complex I
C-II-70 (Fp)	MS204	2E3GC12FB2AE2	6	0.1	Bovine Heart Complex II
C-III-Core 2	MS304	13G12AF12BB11	60	1	Bovine Heart Comp. II, III
C-IV-subunit IV	MS407	20E8C12	60	1	Bovine Comp. IV, holoenz.
C-V-α	MS507	15H4C4	60	1	Bovine Complex V

APPLICATIONS: Western blotting detection OXPHOS complex assembly after BNPAGE.

HOST SPECIES: human, bovine and mouse

CONCENTRATION: 1.5 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative.

SUGGESTED WORKING CONCENTRATION: The antibody cocktail (1.5 mg/mL) should be diluted 250x to a final working concentration of 6.0 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

ADDITIONAL INFO: Accompanied by 2mg of bovine heart mitochondria (MS802) as a control sample.

BACKGROUND:

Genetic diseases affecting Oxidative Phosphorylation (OXPHOS) occur in around 1 in 7000 live births and are also found amongst the adult population. Analysis of these diseases remains problematic. They can occur through mutations in mitochondrial DNA and also by mutation of the many proteins encoded on nuclear DNA and transported to the mitochondrion to complete the OXPHOS complexes assembly. Presently, initial detection of a likely OXPHOS dysfunction is made by activity measurements of individual OXPHOS complexes as well as ATP levels.

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 Product Information Sheet and Product Technical Specifications 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.