

**TECHNICAL DATA SHEET****Catalog # MSP02****MitoProfile® Pyruvate dehydrogenase (PDH) WB Antibody Cocktail**

Rev.3

LOT #:

COMPONENTS: 150 µg monoclonal antibody

Antigen	Clone ID	Amount (µg)	Working conc. (µg/mL)	Immunogen
C-V-OSCP	4C11C10D12	12.5	0.5	Hum. rec. mature OSCP
PDH-E1-α	9H9AF5	25	1	Hum. rec. PDH-E1-α
PDH-E1-β	17A5E2H8	62.5	2.5	Porcine PDH
PDH-E2	15D3G9C11	25	1	Porcine PDH
PDH-E2/E3bp	13G2AE2BH5	25	1	Porcine PDH

APPLICATIONS: Western blotting detection of enzyme purity of PDH complex

SPECIES CROSS-REACTIVITY: human and bovine

HOST SPECIES AND ISOTYPE: Mouse

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

SUGGESTED WORKING CONCENTRATION: Approximately 6 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:**

The pyruvate dehydrogenase complex (PDH) is at the center of aerobic carbohydrate metabolism. It is localized in the matrix space of mitochondria where it catalyzes the irreversible oxidative decarboxylation of pyruvate entering the organelle to produce acetyl-CoA, NADH and CO<sub>2</sub>.

PDH is a complex of three different enzymes that channel substrate and product. These are pyruvate dehydrogenase (E1), dihydrolipoamide transacetylase (E2) and dihydrolipoamide dehydrogenase (E3).

**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.