

PDH subunit E2/E3bp monoclonal antibody

CATALOG #:	A21326
COMPONENTS:	100 µg monoclonal antibody
APPLICATIONS:	Western blotting and Immunocytochemistry
CLONE ID OF MONOCLONAL ANTIBODY (mAb):	13G2AE2BH5
SPECIES CROSS-REACTIVITY:	human (two bands), bovine, rat, and mouse
HOST SPECIES AND ISOTYPE:	Mouse IgG2a, k
IMMUNOGEN:	Porcine PDH
CONCENTRATION:	1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% azide as a preservative
SUGGESTED WORKING CONCENTRATION:	1 µg/mL for Western blotting, 1 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.

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 CO₂.

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).

PDH deficiencies, diabetes, starvation, sepsis, and possibly Alzheimer's disease have been linked to altered PDH functioning.

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