

Complex I subunit NDUFB8 monoclonal antibody

Catalog no. 459210

(See product label for lot information)

Product Description

100 µg monoclonal antibody

Clone/PAD: 20E9DH10C12

Isotype: Mouse IgG1, k

Qty: 100 µg

Concentration

1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% azide as a preservative.

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.

Validation

See www.invitrogen.com/antibodies for protocols

Validated for use in Western blotting.

0.5 µg/mL for Western blotting

Other applications are not tested.

Reactivity

This product had been directly tested for reactivity with human, bovine, mouse, and rat.

Immunogen

Bovine Complex I

Storage

Store at 4°C. Do not freeze.

Expiration Date

See the product label.

Background

Complex I, or NADH ubiquinone oxidoreductase, is a large protein complex of 950,000 Da molecular weight made up by 45 to 46 different subunits. A total of seven of the subunits of the complex are encoded by mitochondrial DNA, while the remainder subunits are nuclear encoded, which are translated in the cytosol and translocated into the organelle for assembly at the inner membrane.

The enzyme complex catalyses electron entry from NADH via a flavin (FMN) and several non-heme iron centers. Complex I is sensitive to a wide range of inhibitors, many of which are pesticides or other common environmental toxins, such as rotenone. Complex I dysfunction is a common cause of genetic OXPHOS defects. Altered functioning of this complex is also thought to contribute to several neurological disorders including Parkinson's disease and schizophrenia. Also, there is evidence of Complex I involvement in diabetes.



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