

PDC-E2

Antigen Specification

Product Number: 17900

Description:

Human pyruvate dehydrogenase complex (E2/dihydrolipamide acyltransferase-subunit PDC-E2; M2 component).
Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG-type human auto-antibodies.

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Expression construct:

Full-length cDNA coding for the mature form of the human PDC-E2 protein fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with i: anti-M2 autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

61 kDa

Calculated isoelectric point:

pH 5.8

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative samples); immunodot analyses with positive/negative samples.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.
Storage conditions: -70°C or below.
Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.4-0.8 µg/mL (depending on the type of ELISA plate and coating buffer).
Suitable for labeling of functional groups.

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