

M2

Antigen Specification

Product Number: 18000

Description:

Human M2.

Recombinant antigen for research use or manufacturing only.

Mixture of E2/dihydrolipamide acyltransferase-subunits from 3 mitochondrial protein complexes: pyruvate dehydrogenase complex (PDC-E2); 2-oxo-glutarate dehydrogenase complex (OGDC-E2); branched chain 2-oxo-acid dehydrogenase complex (BCOADC-E2). Mixture contains equal mass of each protein component.

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 constructs:

cDNAs coding for the mature forms of the human PDC-E2, OGDC-E2 and BCOADC-E2 proteins individually fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 75%); Western blot with i: anti-M2 autoantibody-positive sera; ii: monoclonal anti-hexa-His-tag antibody.

Calculated molecular weights:

PDC-E2	60,630 Dalton
OGDC-E2	42,301 Dalton
BCOADC-E2	47,321 Dalton

Calculated isoelectric points:

PDC-E2	pH 5.8
OGDC-E2	pH 6.3
BCOADC-E2	pH 6.5

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative sera panels); immunodot and microarray test with positive/negative sera panels.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH. 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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