

## 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 sample; ii: monoclonal anti-His-tag antibody.

**Calculated molecular weights:**

PDC-E2	61 kDa
OGDC-E2	42 kDa
BCOADC-E2	47 kDa

**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 samples); immunodot analyses with positive/negative samples.

**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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