

## M2

### Antigen Specification

**Product Number:** 18000

**Description:**

Human M2.  
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.  
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 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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