

## BCOADC-E2

### Antigen Specification

**Product Number: 17700**

**Description:**

Human branched chain 2-oxo-acid dehydrogenase complex (E2/dihydrolipamide acyltransferase-subunit BCOADC-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 BCOADC-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:**

47 kDa

**Calculated isoelectric point:**

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 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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