

# Formiminotransferase Cyclodeaminase (LC1)

## Antigen Specification

**Product Number: 13700**

**Description:**

Human formiminotransferase cyclodeaminase (FTCD); identical with the antigen called “liver cytosol type 1 antigen” (LC1).

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 approx. 60 kDa monomer chain of the human FTCD enzyme fused to a hexahistidine purification tag.

**Biochemical tests:**

SDS-PAGE (purity > 95 %); Western blot with i: monoclonal anti-His-tag antibody; ii: anti-LC1 autoantibody-positive sample.

**Calculated isoelectric point:**

pH 5.85

**Calculated molecular weight:**

60 kDa

(The native human enzyme has been reported as an octamer with approx. 480 kDa molecular weight.)

**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:  $-70^{\circ}$  or below. Repeated freeze/thaw cycles should be avoided.

**Coating concentration:**

0.35-0.7  $\mu\text{g/mL}$  (depending on the type of ELISA plate and coating buffer; **CAUTION:** these values are not based on exhaustive testing and are only guidelines for customer's development work). Suitable for labeling of functional groups.

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