

Recombinant Human 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 solid (ELISA, Dot Blot) and fluid phase diagnostic assays (of limited use for Western Blot due to conformational epitopes).

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 hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 95 %); Dot Blot with i: monoclonal anti-hexa-His-tag antibody; ii: autoimmune hepatitis (AIH II) patient sera.

Calculated molecular weight:

59,749 Dalton
(The native human enzyme has been reported as an octamer with approx. 480 kDa molecular weight.)

Calculated isoelectric point:

pH 5.85

Immunological tests/Functionality:

Standard ELISA test (checker-board analysis of positive/negative sera panels); Immuno-dot test.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20 % glycerol as cryoprotective agent. Storage temperature: -70° to -80° C. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.35-0.7 µg/ml (depending on the type of ELISA plate and coating buffer; **CAUTION:** due to the novelty of recombinant LC1/FTCD as diagnostic marker these values are not based on exhaustive testing and are only guidelines for customer's development work). Suitable for biotinylation and iodination.

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