

Product: Cytochrome P450 2D6 (LKM-1), human, recombinant
Catalog #: 12-4347
Amount: 10 µg

DESCRIPTION:

Recombinant human Cytochrome P450 2D6 (rHuLKM-1)
Cytochrome P450 2D6 is a member of a complex family of microsomal enzymes (mono-oxygenases) present in the endoplasmic reticulum membrane, which perform detoxification reaction on xenobiotic compounds. Cytochrome P450 2D6 is the molecular target of autoantibodies against the "liver kidney microsomal antigen 1" (LKM 1) which has been classically defined by immunofluorescence microscopy. The presence of these autoantibodies is considered indicative of Autoimmune Hepatitis Type 2; LKM 1 antibodies have also been detected in patients with hepatitis C viral infection. The International Autoimmune Hepatitis Group therefore has subdivided the AIH type 2 into two subgroups: 2a with HCV and 2b without HCV. AIH 2a patients are often over 40 and predominantly male.

The use of a purified recombinant Cytochrome P450 2D6 antigen allows the differentiation of autoimmune hepatitis from drug-induced hepatitis where transient autoantibodies to other P450 family members occur which cannot be differentiated by immunofluorescence techniques.

Recombinant Human Cytochrome P450 2D6, also called liver/kidney microsomal antigen 1 is produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 55,801 dalton

SOURCE:

Sf9 insect cells

PURITY:

> 40% (SDS- PAGE)

IMMUNOLOGICAL FUNCTION:

1. Binds IgG-type human auto-antibodies.
2. Auto-antibodies to TPO recognize conformation-dependent epitopes
3. Standard ELISA test (checker-board analysis of positive/negative sera panels, including international reference serum NIBSC 66/387)

APPLICATION:

Western-Blot with monoclonal anti-LKM-1 antibody and monoclonal anti-hexa-His-tag antibody.

ELISA

Suitable for biotinylation and iodination.

COATING CONCENTRATION:

0.15-0.375 µg/ml (depending on the type of ELISA plate and coating buffer).

FORM:

Purified, in 16mM sodium phosphate buffer pH-7.6, 400mM sodium chloride, 0.08mM KI and 20% glycerol.

STORAGE:

-20°C (aliquot), avoid freezing and thawing cycles

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