

Cytochrome P450 2D6 (LKM 1 hp)

Antigen Specification

Product Number: 19800

Description:

Human Cytochrome P450 2D6 (CYP2D6); identical with the antigen called "liver/kidney microsomal antigen 1" (LKM 1). Recombinant antigen for research use or manufacturing 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:

Fusion protein construct containing full-length cDNA coding for human LKM 1/ Cytochrome P450 2D6. The antigen is released from its fusion partner by controlled proteolytic separation.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with i: monoclonal anti-LKM 1 antibody; ii: anti-LKM 1 autoantibody-positive sample.

Calculated molecular weight:

56 kDa

Calculated isoelectric point:

pH 6.64

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 15% glycerol as cryoprotective agent; being a peripheral membrane protein LKM 1 requires addition of detergent for solubility. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.35-0.6 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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