

## Cytochrome P450 2D6 (LKM 1)

### Antigen Specification

**Product Number:** 13500

**Description:**

Human Cytochrome P450 2D6 (CYP2D6); identical with the antigen called "liver/kidney microsomal antigen 1" (LKM 1). Recombinant antigen for solid (ELISA, Dot blot) and fluid phase diagnostic assays.

**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 human LKM 1/Cytochrome P450 2D6.

**Biochemical tests:**

SDS-PAGE (purity > 40 %); Western blot with i: monoclonal anti-LKM 1 antibody; ii: autoimmune hepatitis patient sera.

**Calculated molecular weight:**

55,801 Dalton

**Calculated isoelectric point:**

pH 6.77

**Immunological tests/Functionality:**

Standard ELISA test (checkerboard analysis of positive/negative sera panels); immunodot test.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: 50 to 100 mM phosphate 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 temperature:  $-70^{\circ}$  to  $-80^{\circ}$  C. Repeated freeze/thaw cycles should be avoided.

**Coating concentration:**

0.35-0.6  $\mu$ g/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

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