

## 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 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:**

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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