

## Human (MCP-1)ELISA Kit

### Description

#### 1. Serum preparation

After collection of the whole blood, allow the blood to clot by leaving it undisturbed at room temperature. This takes 10-20 minutes. Remove the clot by centrifuging at 2,000-3,000 rpm for 20 minutes. If precipitates appear during reservation, the sample should be centrifuged again.

#### 2. Plasma preparation

**Collect the whole blood into tubes with anticoagulant (EDTA or citrate). After incubated at room temperature for 10-20 minutes, tubes are centrifuged for 20 min at 2,000-3,000 rpm. Collect the supernatant as plasma samples. If precipitates appear during reservation, the sample should be centrifuged again.**

#### 3. Urine samples

Collect urine into aseptic tubes. Collect the supernatant carefully after centrifuging for 20 min at 2,000-3,000 rpm. If precipitates appear during reservation, the sample should be centrifuged again. The preparation procedure for cerebrospinal fluid and pleuroperitoneal fluid is the same as that of urine sample.

#### 4. Cell samples

If you want to detect the secretions of cells, collect culture supernatant into aseptic tubes. Collect the supernatant carefully after centrifuging for 20 min at 2,000-3,000 rpm. If you want to detect intracellular components, add cells to 1X100/ml with PBS (pH 7.2-7.4). The cells were destroyed to release intracellular components by repeated freezing and thawing. Collect the supernatant carefully after centrifuging for 20 min at 2,000-3,000 rpm. If precipitates appear during reservation, the sample should be centrifuged again.

#### 5. Tissue samples

Tissue samples are cut, weighed, frozen in liquid nitrogen and stored at -80°C for future use. The tissue samples were homogenized after adding PBS (pH 7.4). Samples should be operated at 4°C. Collect the supernatant after centrifuging for 20 min at 2,000-3,000 rpm. Aliquot the supernatant for ELISA assay and future use.

#### Notes:

1. Sample extraction and ELISA assay should be performed as soon as possible after sample collection. Samples should be extracted according to the relevant literature. If ELISA assay can not be performed immediately, samples can be stored at -20°C. Repeated freeze-thaw cycles should be avoided.
2. Our kits can not be used for samples with NaN<sub>3</sub> which can inhibit the activity of HRP.

#### Date Created

2024/07/03