

Mouse Platelet Factor 4 (PF-4/CXCL4) ELISA Kit

Catalog Number: PAK-HMM-0039

• Description

Platelet factor 4 (PF4) is a specific protein synthesized from platelet alpha granules and is a tetramer of basic polypeptides. PF4 is a basic peptide tetramer that readily binds to and neutralizes heparin, and easily binds to acetylheparin sulfate on the surface of vascular endothelial cells to slow down the process of thrombin inactivation, thus promoting thrombus formation. It is a small cytokine belonging to the CXC chemokine family, also known as chemokine ligand 4. During platelet aggregation, this chemokine is released from the alpha granules of activated platelets and promotes blood coagulation by modulating the action of heparin-like molecules.

• Basic Information

Test Species: Mouse

Synonyms: SCYB4; Chemokine C-X-C-Motif Ligand 4; Oncostatin-A; Iroplact

Sample Type: Serum, plasma, tissue homogenates, cell lysates, cell culture supernatants and other biological fluids.

Detection Methods: Sandwich ELISA

Sensitivity: 0.29 ng/mL

Detection Range: 0.78-50 ng/mL

Accuracy: The intraplate coefficient of variation is less than 10% and the interplate coefficient of variation is less than 10%.

• Detection Principle

The kit is based on double antibody sandwich enzyme-linked immunosorbent assay (ELISA). To the microtiter wells pre-coated with mouse platelet factor 4 (PF-4; CXCL4) capture antibody, the sample, standard, biotin-labeled detection antibody and HRP enzyme conjugate are added sequentially, and then incubated and washed, and then the color is developed with the substrate TMB, which is converted to blue by HRP, and then converted to the final yellow color under the action of acid. The color correlates positively with mouse platelet factor 4 (PF-4; CXCL4) in the sample. The absorbance (OD) is measured at 450 nm using an enzyme counter and the concentration of the sample is calculated.



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• Applications

This kit detects PF-4/CXCL4 in mice in samples without significant cross-reactivity with its analogs.

• Specification

48T, 96T, 5x96T

• Storage & Transportation

2-8°C

Shelf Life: 6 months



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