# Platelet Factor 4 (PF4) ELISA Kit for Sheep

## PRODUCT OVERVIEW

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| **Product Name** | platelet factor 4 (PF4), ELISA Kit |
| **Full Product Name** | Sheep Platelet factor 4, PF4 ELISA Kit |
| **Product Gene Name** | PF4 elisa kit |
| **Product Synonym Names** | Sheep Platelet factor 4 (PF4) ELISA kit; CXCL4; MGC138298; SCYB4; chemokine (C-X-C motif) ligand 4; platelet factor 4 (chemokine (C-X-C motif) ligand 4) ; platelet factor 4 |
| **Species Reactivity** | Sheep |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of Sheep PF4. No significant cross-reactivity or interference between Sheep PF4 and analogues was observed. |
| **Preparation and Storage** | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions. |
| **Intra-assay Precision** | Intra-assay Precision (Precision within an assay): CV% is less than 8%<br>Three samples of known concentration were tested twenty times on one plate to assess.<br>Inter-assay Precision (Precision between assays): CV% is less than 10%<br>Three samples of known concentration were tested in twenty assays to assess. |
| **Molecular Weight** | 9,130 Da |
| **3D Structure** | ModBase 3D Structure for P30035 |
| **Detection Wavelength** | 450 nm |
| **Sample Volume** | 50-100ul |
| **Protein Biological Process 1** | Immunity |
| **Protein Biological Process 2** | chemokine |
| **Protein Biological Process 3** | Chemotaxis |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for PF4 elisa kit** | MBS947541 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the platelet factor 4 (PF4) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PF4. The ELISA analytical biochemical technique of the MBS947541 kit is based on PF4 antibody-PF4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PF4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PF4. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of PF4 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PF4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 266800 |
| **NCBI Accession #** | P30035.1 |

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| **UniProt Primary Accession #** | P30035 |
| **NCBI Official Full Name** | Platelet factor 4 |
| **UniProt Protein Name** | Platelet factor 4 |
| **UniProt Synonym Protein Names** | C-X-C motif chemokine 4 |
| **Protein Family** | Platelet factor |
| **UniProt Gene Name** | PF4 |
| **UniProt Synonym Gene Names** | CXCL4; SCYB4; PF-4 |
| **UniProt Entry Name** | PLF4_SHEEP |
| **UniProt Comments for PF4** | **Function:** Released during platelet aggregation. Neutralizes the anticoagulant effect of heparin because it binds more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. Chemotactic for neutrophils and monocytes. Inhibits endothelial cell proliferation. |
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