Anti-Human Platelet Factor IV/Heparin
Monoclonal Antibody

<table>
<thead>
<tr>
<th>Catalogue#</th>
<th>Format</th>
<th>Size</th>
<th>Concentration</th>
<th>Isotype Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL2767AP</td>
<td>Purified</td>
<td>200 µg</td>
<td>1.0 mg/ml</td>
<td>CLCMG2B00</td>
</tr>
<tr>
<td>CL2767B</td>
<td>Biotin</td>
<td>100 µg</td>
<td>0.1 mg/ml</td>
<td>CLCMG2B15</td>
</tr>
<tr>
<td>CL2767HP</td>
<td>HRPO</td>
<td>100 µg</td>
<td>0.1 mg/ml</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Isotype: Mouse IgG_{2bκ}

DESCRIPTION:

Platelet factor IV is a 70 aa protein released from the alpha granules of activated platelets. PF4 is synthesized by bone marrow megakaryocytes and stored in alpha granules as a non-covalent bound tetramer. Platelet factor IV binds with high affinity to heparin and plays a role in inflammation and wound repair. PF4 is a chemoattractant for neutrophils, monocytes and fibroblasts and has been reported to be an immunologic regulator that inhibits suppressor T-cell activity.

Heparin-Induced Thrombocytopenia/Thrombosis (HIT/HITT) is a life-threatening complication that manifests itself in a small population of patients exposed to intravenous-heparin. It is characterized by the production of PF4/heparin auto-antibodies. These auto-antibodies bind the PF4/heparin complexes and subsequently bind the FcγIIa receptor on the platelets surface through their Fc region. This activates the platelets and can initiate clot formation. CL2767 (clone KKO), unlike CL2766 (clone RTO) which binds PF4 alone, is specific for PF4/heparin complexes and is seen to have similar binding properties as auto-antibodies found in HIT/HITT.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN3. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
Biotin: Biotin conjugated IgG buffered in PBS, 0.02% NaN3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.
HRPO: HRPO conjugated IgG buffered in PBS with 40% glycerol (v/v) and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. No NaN3 with other preservatives.

STORAGE/STABILITY:

For all formats, store at 4°C. For long term storage (Purified, Biotin, HRPO), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Continued Overleaf.....
APPLICATIONS:

This antibody is suitable for use in ELISA and Western Blot. In ELISA use at a concentration of 0.08 µg/ml following coating the plate with PF4/heparin complexes. This can be done by incubating PF4 with an excess of heparin (100-200 U/ml), while coating the plate.

SPECIFICATIONS:

Clone: KKO

Immunogen: Human Factor IV purified from the supernatant of thrombin activated platelets.

Specificity: This antibody is specific for Human Platelet Factor IV/heparin complexes.

Appropriate control samples should always be included in any labeling studies.

* For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.

REFERENCES:


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