Human CD64/CD45: sc-3611 is a direct immunofluorescence reagent formatted to identify cells expressing the CD64 and CD45 antigens from erythrocyte-lysed whole blood, which may contribute to studies of inflammatory response, neutrophil and monocyte function and dendritic cell function (1-3). CD45 is present on all human leukocytes, including lymphocytes, monocytes, granulocytes, eosinophils, and basophils in peripheral blood (4,5). CD45 plays a role in signal transduction by modifying signals from other cell surface molecules (4). CD64 (also designated FcγRI) is a high affinity Fc receptor for immunoglobulins that, like CD45, is present on the surface of leukocytes, including monocytes, macrophages and on a subpopulation of circulating dendritic cells (1-3). CD64 is also an early granulomonocytic lineage marker on CD34+ hemopoietic progenitors (6). Studying the quantitative expression of CD64 on neutrophils may be a useful tool for identifying infection or acute inflammatory response (7).

<table>
<thead>
<tr>
<th>Antigen</th>
<th>Clone</th>
<th>Isotype</th>
<th>Label*</th>
<th>Detection Range (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD64</td>
<td>10.1</td>
<td>IgG1</td>
<td>FITC</td>
<td>515-545</td>
</tr>
<tr>
<td>CD45</td>
<td>2D1</td>
<td>IgG1</td>
<td>PE</td>
<td>562-607</td>
</tr>
</tbody>
</table>

*Fluorescent labels include FITC: Fluorescein isothiocyanate; PE: phycoerythrin.

**ISOTYPE CONTROL**
sc-3611 CON (IgG1 FITC/IgG1 PE) is the isotype matched negative control for this system and is suitable for 50 tests.

**REFERENCES**