**Anti-Mouse CD36 APC**

**Catalog Number:** 17-0361  
**Also known as:** GR4, GP3b, GP IIIb, Thrombospondin Receptor  
**RUO:** For Research Use Only. Not for use in diagnostic procedures.

Staining of BALB/c bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.03 ug of Rat IgG2a K Isotype Control APC (cat. 17-4321) (left) or 0.03 ug of Anti-Mouse CD36 APC (right). Total viable cells were used for analysis.

### Product Information

<table>
<thead>
<tr>
<th>Contents: Anti-Mouse CD36 APC</th>
<th>Formulation: aqueous buffer. 0.09% sodium azide, may contain carrier protein/stabilizer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Catalog Number:</strong> 17-0361</td>
<td><strong>Temperature Limitation:</strong> Store at 2-8°C. Do not freeze. Light-sensitive material.</td>
</tr>
<tr>
<td><strong>Clone:</strong> No.72-1</td>
<td><strong>Batch Code:</strong> Refer to vial</td>
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<tr>
<td><strong>Concentration:</strong> 0.2 mg/mL</td>
<td><strong>Use By:</strong> Refer to vial</td>
</tr>
<tr>
<td><strong>Host/Isotype:</strong> Rat IgG2a, kappa</td>
<td><strong>Contains sodium azide</strong></td>
</tr>
</tbody>
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### Description

The No. 72-1 monoclonal antibody reacts with mouse CD36, which is a 88 kDa member of the class B scavenger receptor family. Murine CD36 was discovered using an expression cloning strategy to identify macrophage receptors that recognized oxidized low-density lipoprotein (oxLDL), but not acetylated low-density lipoprotein (LDL). CD36 is a platelet-membrane glycoprotein, but is also expressed on monocytes/macrophages, granulocytes, B lymphocytes, microvascular endothelial cells, adipocytes, skeletal muscle and dendritic cells. The role of CD36 as a scavenger receptor was confirmed by the CD36-deficient mouse, which was defective in the binding and uptake of oxLDL by peritoneal macrophages. In addition to binding oxLDL, CD36 binds other ligands including TSP-1, anionic phospholipids, apoptotic cells, collagen, *Plasmodium falciparum*-infected erythrocytes and long-chain fatty acids.

Testing also shows staining on some B cells in the bone marrow in addition to the myeloid cells.

### Applications Reported

This No.72-1 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This No.72-1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from $10^5$ to $10^8$ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References


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Related Products
11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)
17-4321 Rat IgG2a K Isotype Control APC (eBR2a)