Technical Data Sheet

Purified Mouse Anti-Human CD63

Product Information

Material Number: 556019
Alternate Name: LAMP-3; ME491; MLA-1; Granulophysin; Ptpgr40; NGA; gp55
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: H5C6
Immunogen: Human Splenic Adherent Cells
Type: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Human
Tested in Development: Rhesus, Cynomolgus, Baboon

Workshop: V P036
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The H5C6 monoclonal antibody specifically binds to CD63. CD63 is a 53 kDa, type III lysosomal glycoprotein, expressed on activated platelets, monocytes and macrophages. This molecule is also referred to in the literature as LIMP, gp55, melanoma-associated antigen ME491, Ptpgr40, LAMP-3 and is a member of the tetraspan transmembrane 4 superfamily (TM4SF). It is widely expressed on surface and in the cytoplasm of various hematopoietic (monocytes, macrophages) and non-hematopoietic (endothelium, fibroblasts, osteoclasts, smooth muscle) cells. CD63 plays roles in mediating cellular adhesion and motility.

Flow cytometric analysis of CD63 expression on human peripheral blood platelets. Platelets were isolated from fresh whole blood and activated by Thrombin (Sigma-Aldrich, Cat. No. T8885), and then fixed with 2% formaldehyde. After washing, the fixed platelets were stained with either Purified Mouse Anti-Human CD63 antibody (Cat. No. 556019; solid line histogram) or with Purified Mouse IgG1, κ Isotype Control (Cat. No. 555746; dashed line histogram). CD63 (or Ig isotype control) expression was visualized with FITC Goat Anti-Mouse IgG/IgM (Cat. No. 555988). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of platelets.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Flow cytometry Routinely Tested
Immunohistochemistry-frozen Tested During Development
Immunohistochemistry-formalin (antigen retrieval required) Tested During Development

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>555746</td>
<td>Purified Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
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<tr>
<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
</tbody>
</table>

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556019 Rev. 5
Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
5. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.

References