Technical Data Sheet

PE Rat Anti-Mouse CD41

Product Information

Material Number: 561850
Alternate Name: Integrin αIIb chain
Size: 25 µg
Concentration: 0.2 mg/ml
Clone: MWReg30
Immunogen: Mouse Platelets
Isotype: Rat IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MWReg30 antibody reacts with glycoprotein (gp) IIb, also called integrin αIIb chain (CD41), that associates with integrin β3 chain (gpIIIa or CD61) to form the gpIIb/IIIa (CD41/CD61) complex. CD41/CD61 is expressed on platelets, megakaryocytes, and early hematopoietic progenitors. The integrin complex binds to fibrinogen, fibronectin, vitronectin, von Willebrand factor, and thrombospondin. It is important for platelet adhesion and aggregation, and it may play a role in osteolytic tumor metastasis.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

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

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553925</td>
<td>PE Rat IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>R3-34</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 ml</td>
<td>(none)</td>
</tr>
</tbody>
</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. 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.
5. An isotype control should be used at the same concentration as the antibody of interest.

References

Ferkowicz MJ, Starr M, Xie X, et al. CD41 expression defines the onset of primitive and definitive hematopoiesis in the murine embryo. Development. 2003; 130(18):4393-4403. (Biology)