**Technical Data Sheet**

**Purified Rat Anti-Mouse CD62P**

**Product Information**
- **Material Number:** 550289
- **Alternate Name:** P-selectin
- **Size:** 1.0 ml
- **Concentration:** 31.25 µg/ml
- **Clone:** RB40.34
- **Immunogen:** P-selectin-IgG1 Fusion
- **Isotype:** Rat (LEW) IgG1, λ
- **Reactivity:** QC Testing: Mouse
- **Storage Buffer:** Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide.

**Description**
The RB40.34 antibody reacts with mouse P-selectin (CD62P), a 140 kDa protein which is expressed on activated platelets, activated endothelial cells, and megakaryocytes. P-selectin mediates the adhesion of neutrophils and monocytes to activated platelets and endothelial cells, mediates leukocyte rolling, and is involved in the migration of leukocytes into inflamed tissues. CD24 and CD162 (PSGL-1) are ligands of CD62P. mAb RB40.34 can block mouse P-selectin binding to its ligands in vitro and in vivo.

**Immunohistochemical staining of megakaryocytes and platelets.** The frozen section of normal mouse spleen was reacted with RB40.34 mAb. Megakaryocytes and platelets are identified by the intense brown staining.

**Preparation and Storage**
Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

**Application Notes**

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<td>Immunohistochemistry-frozen</td>
<td>Tested During Development</td>
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<td>Immunoprecipitation</td>
<td>Reported</td>
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<td>ELISA</td>
<td>Reported</td>
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<tr>
<td>Blocking</td>
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<tr>
<td>Immunohistochemistry-formalin</td>
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<tr>
<td>Immunohistochemistry-paraffin</td>
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</table>

**Recommended Assay Procedure:**

**Immunohistochemistry:** The RB40.34 antibody is recommended to test for immunohistochemical staining of acetone-fixed frozen sections. Tissues tested were mouse spleen and thymus. The antibody stains thymocytes, lymphocytes, neutrophils, eosinophils, and monocytes. The isotype control recommended for use with this antibody is purified rat IgG1 (Cat. No. 553993). For optimal indirect immunohistochemical staining, the RB40.34 antibody should be titrated (1-10 to 1-50 dilution) and visualized via a three-step staining procedure in combination with biotinylated polyclonal anti-rat Igs (multiple adsorbed) (Cat. No. 559286) as the secondary antibody and Streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). The clone RB40.34 is not recommended for formalin-fixed paraffin embedded sections.

A detailed protocol of the immunohistochemical procedure is available at our website, http://www.bdbiosciences.com/support/resources

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Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
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<td>Biotin Goat Anti-Rat Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<td>550946</td>
<td>Streptavidin HRP</td>
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<td>550880</td>
<td>DAB Substrate Kit</td>
<td>500 tests</td>
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<td>553993</td>
<td>Purified Rat IgG1 λ Isotype Control</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. An isotype control should be used at the same concentration as the antibody of interest.
5. This antibody has been developed for the immunohistochemistry application. However, a routine immunohistochemistry test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.

References


