

## Technical Data Sheet

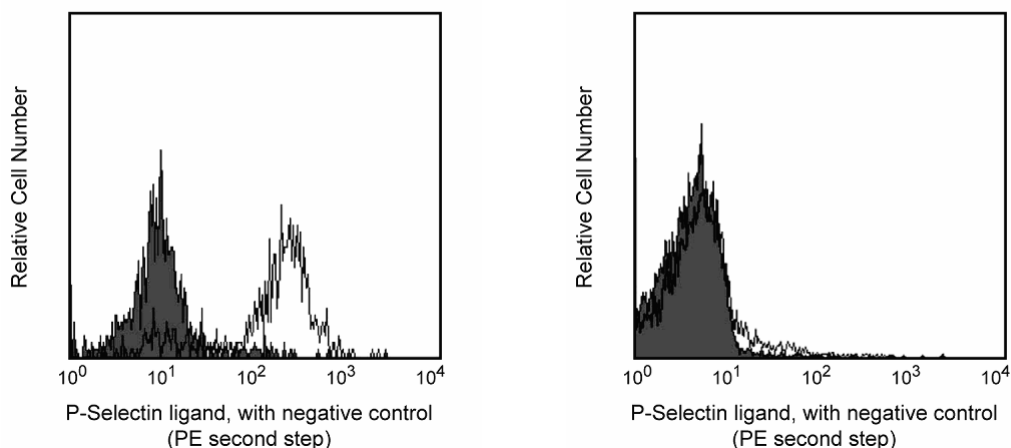
## Purified Mouse P-Selectin - IgG Fusion Protein

## Product Information

Material Number:	555294
Size:	0.1 mg
Concentration:	0.5 mg/ml
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

## Description

The Mouse P-selectin - IgG Fusion Protein is composed of the signal sequence, the lectin domain, the EGF-like repeat, and the first two complement-binding domains of mouse P-selectin (CD62P) fused to the Fc region (hinge, CH2 and CH3) of human IgG1. This chimeric protein binds to P-selectin ligand expressed on mouse neutrophils and myeloid cell lines. Furthermore, P-selectin-IgG fusion protein selectively stains Th1 cells, but not Th2 cells, reported in the literature.



**Detection of P-Selectin ligands on mouse granulocytes (left panel) and mononuclear cells (right panel).** BALB/c whole blood was stained with Mouse P-Selectin - IgG Fusion Protein followed by R-PE-conjugated goat anti-human IgG, Fcγ fragment specific (Jackson ImmunoResearch, open histogram) or with the second-step alone (filled histogram). Erythrocytes were lysed (BD Pharm Lyse™ lysis buffer, Cat. No. 555899), non-viable leukocytes were excluded by staining with 7-AAD (BD Via-Probe™ cell viability dye, Cat. No. 555815/555816), and granulocytes and mononuclear cells were gated according to their light-scatter profiles. Flow cytometry was performed on a BD FACScan™ flow cytometry system.

## Preparation and Storage

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

Avoid multiple freeze-thaws of product.

The fusion protein solution should be stored at -20°C until the vial is opened. After opening, undiluted aliquots should be stored at -20°C or below. Thawed aliquots may be stored up to two months at 4°C.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Immunoprecipitation	Reported

## Recommended Assay Procedure:

For detection of the fusion protein, we recommend a polyclonal anti-hman Ig second step. Other reported applications include affinity isolation of P-selectin ligand.

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## Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
555899	Lysing Buffer	100 ml	(none)
555815	Cell Viability Solution	500 tests	(none)

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
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.

## References

Austrup F, Vestweber D, Borges E, et al. P- and E-selectin mediate recruitment of T-helper-1 but not T-helper-2 cells into inflamed tissues. *Nature*. 1997; 385(6611):81-83.(Biology)

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