

Technical Data Sheet

Purified NA/LE Human BD Fc Block™

Product Information

Material Number:	564765
Size:	0.25 mg
Concentration:	1.0 mg/ml
Reactivity:	QC Testing: Human Tested in Development: Rhesus
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

Fcγ Receptors belong to the immunoglobulin superfamily and are expressed at varying levels in multiple cell lineages including high expression in myeloid and B cells. The major functions of Fc receptors are protective functions of the immune system. There are multiple different types of Fc receptors reflecting a variety of different biological activities, which are modulated when they are aggregated by multivalent antigen-antibody complexes.

While normally serving important physiological roles in the immune system, Fc Receptors can also be the cause of nonspecific, false-positive antibody staining of cells. Human BD Fc Block™ is designed and formulated to block or significantly reduce potential non-specific antibody staining caused by receptors for IgG that may be encountered in various applications including the flow cytometric analysis of human cells. Moreover, it can increase the specificity of antibody labeling of extremely rare target cells such as antigen-specific B cells, fetal cells in maternal blood, hematopoietic progenitor cells, or disseminated epithelial tumor cells.

Preparation and Storage

Store undiluted at 4°C.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

For flow cytometry, incubate 1 million cells suspended in 50-100 µL of staining buffer with 2.5 µg of Human BD Fc Block™ (10 minutes at room temperature) followed by staining with the desired fluorescent antibody. No washing step is needed between the blocking and staining steps.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Nimmerjahn F, Ravetch JV. Fc-receptors as regulators of immunity. *Adv Immunol.* 2007; 96:179-204. (Biology)
Ravetch JV, Bolland S. IgG Fc receptors. *Annu Rev Immunol.* 2001; 19:275-290. (Biology)

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