

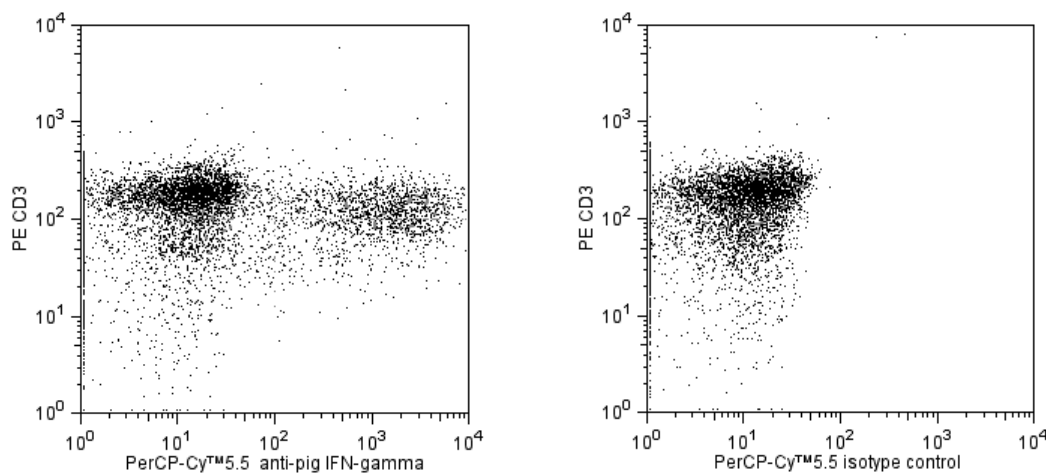
Technical Data Sheet

PerCP-Cy™5.5 Mouse Anti-Pig IFN-γ**Product Information**

Material Number:	561481
Alternate Name:	IFNG; IFN-gamma; Interferon gamma; Interferon-gamma
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	P2G10
Immunogen:	Recombinant pig IFN-γ protein
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Pig
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The P2G10 monoclonal antibody specifically binds to porcine interferon-γ (IFN-γ). The immunogen used to generate the P2G10 hybridoma was recombinant pig IFN-γ protein.



Multicolor flow cytometric analysis of IFN-γ expression by stimulated pig lymphocytes. Pig peripheral blood mononuclear cells were stimulated for 20 h with Leukocyte Activation Cocktail, with BD GolgiPlug™ (Cat. No. 550583). The cells were fixed using BD Cytofix™ Fixation Buffer (Cat. No. 554655) and permeabilized with BD Perm/Wash™ Buffer (Cat. No. 554723). The cells were then stained with PE Mouse Anti-Pig CD3 ε antibody (Cat. No. 561485) and PerCP-Cy™5.5 Mouse Anti-Pig IFN-γ antibody (Cat. No. 561481; Left Panel) or a PerCP-Cy™5.5 Mouse IgG1 Isotype Control (Cat. No. 550795, Right Panel). Two-color flow cytometric dot plots showing the correlated expression of IFN-γ (or Ig Isotype control staining) versus CD3 were derived from gated events with the forward and side light-scatter characteristics of intact lymphocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

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

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

The antibody was conjugated with PerCP-Cy5.5 under optimum conditions, and unconjugated antibody and free PerCP-Cy5.5 were removed. Storage of PerCP-Cy5.5 conjugates in unoptimized diluent is not recommended and may result in loss of signal intensity.

Application Notes**Application**

Intracellular staining (flow cytometry)	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
550583	Leukocyte Activation Cocktail, with BD GolgiPlug™	200 µl	(none)
554655	Fixation Buffer	100 ml	(none)
554723	Perm/Wash Buffer	100 ml	(none)
550795	PerCP-Cy™5.5 Mouse IgG1 κ Isotype Control	0.1 mg	MOPC-21
561485	PE Mouse Anti-Pig CD3ε	50 µg	BB23-8E6-8C8

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. PerCP-Cy5.5-labelled antibodies can be used with FITC- and R-PE-labelled reagents in single-laser flow cytometers with no significant spectral overlap of PerCP-Cy5.5, FITC, and R-PE fluorescence.
3. PerCP-Cy5.5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using dual-laser cytometers, which may directly excite both PerCP and Cy5.5™. We recommend the use of cross-beam compensation during data acquisition or software compensation during data analysis.
4. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
5. 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.
6. This product is subject to proprietary rights of Amersham Biosciences Corp. and Carnegie Mellon University and made and sold under license from Amersham Biosciences Corp. This product is licensed for sale only for research. It is not licensed for any other use. If you require a commercial license to use this product and do not have one return this material, unopened to BD Biosciences, 10975 Torreyana Rd, San Diego, CA 92121 and any money paid for the material will be refunded.
7. This PerCP-conjugated product is sold under license to the following patent: US Patent No. 4,876,190.
8. Cy is a trademark of Amersham Biosciences Limited. This conjugated product is sold under license to the following patents: US Patent Nos. 5,486,616; 5,569,587; 5,569,766; 5,627,027.
9. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
10. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Mateu de Antonio E, Husmann RJ, Hansen R, et al. Quantitative detection of porcine interferon-gamma in response to mitogen, superantigen and recall viral antigen. *Vet Immunol Immunopathol.* 1998; 61(2-4):265-277. (Immunogen: ELISA)

Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods.* 1995; 188(1):117-128. (Methodology: IC/FCM Block)