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Product Data Sheet

LEAF™ Purified anti-human IFN-γ

Catalog # / Size:	506512 / 50 µg 506513 / 500 µg
Clone:	B27
Isotype:	Mouse IgG1, κ
Immunogen:	*E. coli*-expressed recombinant human IFN-γ
Reactivity:	Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, African Green, Sooty Mangabey
Preparation:	The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Formulation:	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.
Concentration:	1.0 mg/ml
Storage:	The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications:	ELISA - *Quality tested* ICFC, IP, IHC, Neut, WB - *Reported in the literature* CyTOF® - *Validated*
Recommended Usage:	Each lot of this antibody is quality control tested by ELISA assay. For ELISPOT capture applications, a concentration range of 0.5-2 µg/ml is recommended. For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IFN-γ recombinant protein ranging from 1000 to 8 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	**Flow Cytometry[2]:** The fluorochrome-labeled B27 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IFN-γ -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section. **Neutralization[1,3]:** The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IFN-γ bioactivity (Cat. No. 506513).
Application References:	1. Favre C, *et al.* 1989. *Molec. Immunol.* 26:17. 2. Kaur A, *et al.* 2002. J Virol. 76:3646. 3. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5. 4. Andersson U, *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag. 5. Rout N, *et al.* 2010. *PLoS One* 5:e9787. (FC)

Description:	Interferon-γ is a potent multifunctional cytokine which is secreted primarily by activated NK cells and T cells. Originally characterized based on anti-viral activities, IFN-γ also exerts anti-proliferative, immunoregulatory, and proinflammatory activities. IFN-γ can upregulate MHC class I and II antigen expression by antigen-presenting cells. The B27 antibody reacts with the human interferon-γ. The B27 antibody can neutralize the bioactivity of natural or recombinant IFN-γ.
Antigen References:	1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego. 2. De Maeyer E, *et al.* 1992. *Curr. Opin. Immunol.* 4:321. 3. Farrar M, *et al.* 1993. *Annu. Rev. Immunol.* 11:571. 4. Gray P, *et al.* 1987. *Lymphokines* 13:151.

Related Products: Product	Clone	Application
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Recombinant Human IFN-γ	rh IFN-γ	BA, ELISA