TECHNICAL DATA SHEET

In Vivo Ready™ Anti-Mouse IFN gamma (XMG1.2)

Catalog Number: 40-7311

PRODUCT INFORMATION

Contents: In Vivo Ready™ Anti-Mouse IFN gamma (XMG1.2)

Isotype: Rat IgG1, kappa

Concentration: 2 mg/mL

Clone: XMG1.2

Reactivity: Mouse

Formulation: 10 mM NaH2PO4, 150 mM NaCl, pH7.2

Endotoxin Level: Less than or equal to 0.01 EU/ug, as determined by the LaL assay

DESCRIPTION

The XMG1.2 antibody is specific for mouse Interferon-gamma (IFN-g), a 20 kDa type II cytokine known for its central roles in protection against bacterial or viral pathogens and for its anti-tumor properties. IFN-g is secreted by several types of immune cells, which allow the cytokine to modulate innate immunity, when secreted by NK and NKT cells, and to function in support of adaptive immunity when secreted by Th1 and CD8+ T cells (CTLs).The XMG1.2 antibody is suitable for detection of intracellular IFN-g protein, e.g. by flow cytometry, as well as for quantitative analysis of the secreted protein by ELISA, when paired with an appropriate secondary antibody. This clone is also widely used for neutralization of the functional activity of IFN-g in a variety of assays.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Choudhry N, Petry F, van Rooijen N, and McDonald V. 2012. J. of Infect. Disease. 206: 117-124. (in vivo neutralization)Cobb D and Smeltz RB. 2012. J. Immunol. 188: 3766-3773. (in vitro neutralization) Brown DM, Lee S, Garcia-Hernandez M, and Swain SL. 2012. J. Virol. 86: 6792-6803. (ELISA - detection)Yu H, Karunakaran KP, Jiang X, Shen C, Andersen P, and Brunham RC. 2012. Infect. Immun. 80: 1510-1518. (ELISA -detection)Kwon M-J, Ma J, Ding Y, Wang R, and Sun Z. 2012. J. Immunol. 188: 5887-5897. (in vitro induction of Th2 polarization)Barr TA, Shen P, Brown S, Lampropoulou V, Roch T, Lawrie S, Fan B, O'Connor RA, Anderton SM, Bar-Or Am Fillatreau S, and Gray D. 2012. J. Exp. Med. 209: 1001-1010. (flow cytometry)Cardona AE, Restrepo BI, Jaramillo JM, and Teale JM. 1999. J. Immunol. 162: 995-1002. (immunohistochemistry – frozen tissue)Kupfer A, Mosmann TR, and Kupfer H. 1991. Proc. Natl. Acad. Sci. 88: 775-779. (immunofluorescence microscopy)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.