IFN gamma Monoclonal Antibody (XMG1.2), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	XMG1.2
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_469504

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	226 Publications
Functional Assay (Functional)	-	1 Publication
T-Cell Activation (TCA)	-	1 Publication

Product Specific Information

Description: The XMG1.2 antibody reacts with mouse interferon-gamma. The XMG1.2 antibody is a neutralizing antibody. Mouse IFN-gamma is a 20 kDa factor produced by activated T, B and NK cells, and is an anti-viral and anti-parasitic cytokine. IFN-gamma, in synergy with other cytokines such as TNF-alpha, inhibits proliferation of normal and transformed cells. Immunomodulatory effects of IFN-gamma are exerted on a wide range of cell types expressing the high affinity receptors for IFN-gamma. Glycosylation of IFN-gamma does not affect its biological activity.

Applications Reported: This XMG1.2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

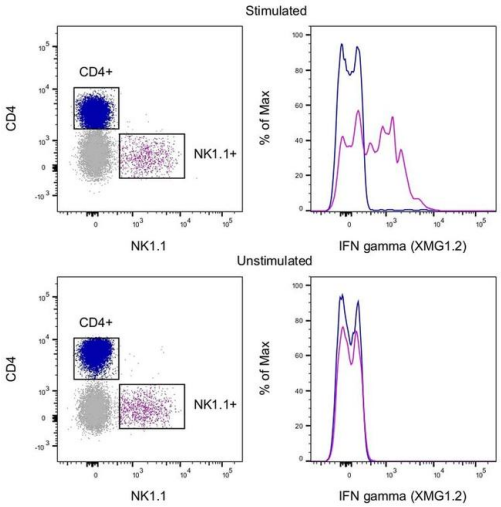
Applications Tested: The APC conjugated XMG1.2 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes and can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in

the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IFN gamma Monoclonal Antibody (XMG1.2), APC, eBioscience™



IFN gamma Antibody (17-7311-82)
Intracellular staining of stimulated mouse splenocytes. As expected based on known expression patterns, IFN gamma clone XMG1.2 stains a minor subset of CD4+ T cells and a larger subset of NK1.1+ NK cells with no staining observed without stimulation. Details: Mouse splenocytes were cultured in the presence of Protein Transport Inhibitors (500X) (Unstimulated, bottom row) or Cell Stimulation Cocktail (plus protein transport inhibitors, 500X) for 5 hours (Stimulated, top row). Cells were fixed and permeabilized with the IC Fixation & Permeabilization Buffer Set and protocol followed by intracellular staining with CD4 (clone RM4-5), NK1.1 (clone PK136) and IFN gamma (clone XMG1.2). Cells in the CD4+ (blue histogram) or NK1.1+ (purple histogram) gates were used for analysis. {TM}

232 References

Immunohistochemistry (1)

Autophagy

FOXP3+ macrophage represses acute ischemic stroke-induced neural inflammation.

"17-7311-82 was used in Flow Cytometry to demonstrate a distinct set of FOXP3+ macrophages with enhanced scavenging capability, which could be a target in immunomodulatory therapy against AIS.Abbreviations: ADGRE1/F4 /80: adhesion G protein-coupled receptor E1; AIF1/Iba1: allograft inflammatory factor 1; AIS: acute ischemic stroke; ARG1: arginase 1; ATP: adenosine triphosphate; BECN1/Beclin1:."

Authors: Cai W,Hu M,Li C,Wu R,Lu D,Xie C,Zhang W,Li T,Shen S,Huang H,Qiu W,Liu Q,Lu Y,Lu Z

Year 2023

Species Mouse

Dilution 1:400

Immunohistochemistry (Paraffin) (1)

PLoS neglected tropical diseases

TLR7 controls myeloid-derived suppressor cells expansion and function in the lung of C57BL6 mice infected with Schistosoma japonicum.

"17-7311-82 was used in Immunohistochemistry (Paraffin) to indicate that TLR7 signaling inhibits the accumulation and function of MDSCs in S. japonicum infected mouse lung by down-regulating the expression of PD-L1/2 and secreting of IL-10, via NF-B signaling."

Authors: Zhou L,Zhu Y,Mo L,Wang M,Lin J,Zhao Y,Feng Y,Xie A,Wei H,Qiu H,Huang J,Yang Q

Year 2022

Species Mouse

Immunocytochemistry (2)

Cell reports

Immunotherapeutic Blockade of CD47 Inhibitory Signaling Enhances Innate and Adaptive Immune Responses to Viral Infection.

"17-7311 was used in Immunocytochemistry to indicate that CD47 blockade not only enhances the function of innate immune cells but also links to adaptive immune responses through improved APC function."

Authors: Cham LB,Torrez Dulgeroff LB,Tal MC,Adomati T,Li F,Bhat H,Huang A,Lang PA,Moreno ME,Rivera JM,Galkina SA,Kosikova G,Stoddart CA,McCune JM,Myers LM,Weissman IL,Lang KS,Hasenkrug KJ

Year 2020

Species Mouse

Infection and immunity

Leishmania-infected macrophages are targets of NK cell-derived cytokines but not of NK cell cytotoxicity.

"17-7311 was used in Immunocytochemistry to study whether whether natural killer cells contribute to the control of Leishmania infections by lysing or by activating infected host cells."

Authors: Prajeeth CK,Haeberlein S,Sebald H,Schleicher U,Bogdan C

Year 2011

Species Mouse

More applications with references on thermofisher.com

Flow (226) **Functional (1)** **TCA (1)**