

IFN gamma Monoclonal Antibody (R4-6A2), eBioscience™

Product Details

Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	R4-6A2
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468470

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	-	4 Publications
ELISA (ELISA)	-	19 Publications
Neutralization (Neu)	Assay-Dependent	7 Publications
Functional Assay (FN)	Assay-Dependent	8 Publications
Inhibition Assays (IA)	-	1 Publication

Product Specific Information

Description: The R4-6A2 antibody reacts with mouse interferon-gamma (IFN-gamma), a homodimeric 15-20 kDa cytokine secreted by Th1 cells. The R4-6A2 antibody is a neutralizing antibody. IFN-gamma is an ~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: The R4-6A2 antibody has been reported for use in cytokine neutralization, and immunoblotting (WB). The purified R4-6A2 antibody can be used for blocking of fluorochrome conjugated R4-6A2 in intracellular flow cytometry experiments to serve as a specificity control. It has also been reported to neutralize IFN gamma binding and biological activity. (Please use Functional Grade purified R4-6A2, cat. 16-7312, in functional assays.).

Applications Tested: The Functional Grade purified R4-6A2 antibody has been tested for neutralization of mouse IFN gamma bioactivity.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

40 References

Immunohistochemistry (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p>Absence of 2 integrins impairs regulatory T cells and exacerbates CD4+ T cell-dependent autoimmune carditis.</p> <p>"14-7312 was used in Immunohistochemistry to investigate the contribution of CD4(+) T cells and (2) integrins in the pathogenesis of autoimmune arthritis and endocarditis."</p> <p>Authors: Haasken S,Auger JL,Binstadt BA</p>	<p>Year 2011</p> <p>Species Mouse</p>
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Flow Cytometry (4)

<p>Molecular medicine reports</p> <p>MicroRNA215p protects melanocytes via targeting STAT3 and modulating Treg/Teff balance to alleviate vitiligo.</p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 14-7312-85) in Flow Cytometry"</p> <p>Authors: Huo J,Liu T,Li F,Song X,Hou X</p>	<p>Year 2021</p>
<p>Cell reports</p> <p>Qa-1-Restricted CD8⁺ T Cells Can Compensate for the Absence of Conventional T Cells during Viral Infection.</p> <p>"14-7312-85 was used in Flow Cytometry to study compensatory mechanisms in immune responses to viruses when classical T cell immunity has been evaded."</p> <p>Authors: Anderson CK,Reilly EC,Lee AY,Brossay L</p>	<p>Year 2019</p> <p>Species Mouse</p>

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ELISA (19)

<p>Scientific reports</p> <p>Novel HLA-B7-restricted human metapneumovirus epitopes enhance viral clearance in mice and are recognized by human CD8⁺ T cells.</p> <p>"Published figure using IFN gamma monoclonal antibody (Product # 14-7312-85) in ELISA"</p> <p>Authors: Miranda-Katz M,Erickson JJ,Lan J,Ecker A,Zhang Y,Joyce S,Williams JV</p>	<p>Year 2021</p>
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More applications with references on thermofisher.com

- Neu (7)
- FN (8)
- IA (1)

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