

Datasheet for ABIN3043185

anti-Interferon gamma antibody (C-Term)



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Overview

Quantity:	100 µg
Target:	Interferon gamma (IFNG)
Binding Specificity:	AA 151-166, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Interferon gamma antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Interferon gamma/IFNG Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human IFN gamma.
Sequence:	KRKRSQMLFR GRRASQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Interferon gamma/IFNG Antibody (ABIN3043185). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Interferon gamma (IFNG)

Alternative Name: IFNG ([IFNG Products](#))

Background: Synonyms: Interferon gamma, IFN-gamma, Immune interferon, IFNG,
Tissue Specificity: Released primarily from activated T lymphocytes.
Background: Interferon-gamma (IFN-gamma) is an inflammatory cytokine that has been implicated in the development of fibrosis in inflamed tissues. The production of [a](https://www.bosterbio.com/anti-interferon-gamma-picoband-trade-antibody-a00393-1-boster.html) IFN-gamma, which is under genetic control, can influence the development of fibrosis in lung allografts. IFN-gamma is also produced by natural killer (NK) cells and most prominently by CD8 cytotoxic T cells, and is vital for the control of microbial pathogens. Interferon gamma is believed to be crucial for host defence against many infections. Genetically determined variability in IFN-gamma and expression might be important for the development of tuberculosis. IFN-gamma activates human macrophage oxidative metabolism and antimicrobial activity. In addition to having antiviral activity, IFN-gamma has important immunoregulatory functions. IFN-gamma plays an important role in the control of neointima proliferation.
Sequence Similarities: Belongs to the type II (or gamma) interferon family.

Molecular Weight: 19 kDa

UniProt: [P01579](#)

Pathways: [Interferon-gamma Pathway](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [ER-Nucleus Signaling](#), [Regulation of Carbohydrate Metabolic Process](#), [Protein targeting to Nucleus](#), [Autophagy](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human
1. Awad, M., Pravica, V., Perrey, C., El Gamel, A., Yonan, N., Sinnott, P. J., Hutchinson, I. V. CA repeat allele polymorphism in the first intron of the human interferon-gamma gene is associated with lung allograft fibrosis. Hum. Immunol. 60: 343-346, 1999. 2. Szabo, S. J., Sullivan, B. M., Stemmann, C., Satoskar, A. R., Sleckman, B. P., Glimcher, L. H. Distinct effects of

Application Details

T-bet in T(H)1 lineage commitment and IFN-gamma production in CD4 and CD8 T cells. Science 295: 338-342, 2002. 3. Rossouw, M., Nel, H. J., Cooke, G. S., van Helden, P. D., Hoal, E. G. Association between tuberculosis and a polymorphic NF-kappa-B binding site in the interferon gamma gene. Lancet 361: 1871-1872, 2003. 4. Nathan, C. F., Murray, H. W., Wiebe, M. E., Rubin, B. Y. Identification of interferon-gamma as the lymphokine that activates human macrophage oxidative metabolism and antimicrobial activity. J. Exp. Med. 158: 670-689, 1983. 5. Zohlnhofer, D., Richter, T., Neumann, F.-J., Nuhrenberg, T., Wessely, R., Brandl, R., Murr, A., Klein, C. A., Baeuerle, P. A. Transcriptome analysis reveals a role of interferon-gamma in human neointima formation. Molec. Cell 7: 1059-1069, 2001.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Chen, Zhao, Zhang, Yang, Zhao, Zhang, Yan, Pan, Li, Zhang, Li: "Tangshen Formula Attenuates Colonic Structure Remodeling in Type 2 Diabetic Rats." in: **Evidence-based complementary and**

alternative medicine : eCAM, Vol. 2017, pp. 4064156, (2017) ([PubMed](#)).

Li, Wu, Hang, Zhang, Li: "Women with recurrent spontaneous abortion have decreased 25(OH) vitamin D and VDR at the fetal-maternal interface." in: **Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas**, Vol. 50, Issue 11, pp. e6527, (2017) ([PubMed](#)).

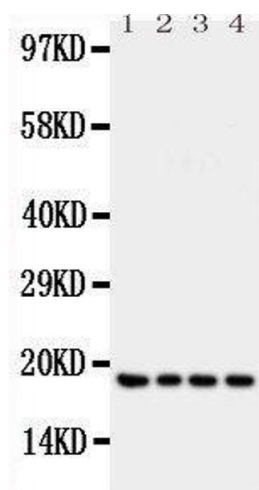
Liu, Tan, Hu, Wu, Wang, Liu, Tang: "Somatostatin Improved B Cells Mature in Macaques during Intestinal Ischemia-Reperfusion." in: **PLoS ONE**, Vol. 10, Issue 7, pp. e0133692, (2016) ([PubMed](#)).

Ma, Chen, Bo, Lu, Zhang: "Protective effect of carnosine after chronic cerebral hypoperfusion possibly through suppressing astrocyte activation." in: **American journal of translational research**, Vol. 7, Issue 12, pp. 2706-15, (2016) ([PubMed](#)).

Yan, Wang, Liang, Fu, Guo: "HPV16L1-attenuated Shigella recombinant vaccine induced strong vaginal and systemic immune responses in guinea pig model." in: **Human vaccines & immunotherapeutics**, Vol. 10, Issue 12, pp. 3491-8, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Anti-Interferon gamma antibody, Western blotting
All lanes: Anti Interferon gamma at 0.5ug/ml
Lane 1: Recombinant Human IFN γ Protein 10ng
Lane 2: Recombinant Human IFN γ Protein 5ng
Lane 3: Recombinant Human IFN γ Protein 2.5ng
Lane 4: Recombinant Human IFN γ Protein 1.25ng
Predicted bind size: 19KD
Observed bind size: 19KD