Datasheet for ABIN3042815

# anti-Interferon gamma antibody (AA 24-166)

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## Overview

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| Quantity: | 100 µg |
| Target: | Interferon gamma (IFNG) |
| Binding Specificity: | AA 24-166 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Interferon gamma antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

## Product Details

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| Purpose: | Anti-IFN gamma Antibody Picoband® |
| Immunogen: | E. coli-derived human IFN gamma recombinant protein (Position: Q24-Q166). |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-IFN gamma Antibody (ABIN3042815). Tested in IHC, 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. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | Interferon gamma (IFNG) |
| Alternative Name: | IFNG (IFNG Products) |
| Background: | Synonyms: Interferon gamma,IFN-gamma,Immune interferon,IFNG,<br>Tissue Specificity: Released primarily from activated T lymphocytes.<br>Background: Interferon-gamma (IFN-gamma) is an inflammatory cytokine that has been implicated in the development of fibrosis in inflamed tissues. The production of 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.<br>Sequence Similarities: Belongs to the type II (or gamma) interferon family. |
| Molecular Weight: | 17 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

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| Application Notes: | Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human<br>ELISA , 0.1-0.5 µg/mL, Human, -<br>Western blot, 0.1-0.5 µg/mL, Human<br>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. 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. 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 |

## Application Details

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| | gamma gene. Lancet 361: 1871-1872, 2003. 4. Szabo, S. J., Sullivan, B. M., Stemmann, C., Satoskar, A. R., Sleckman, B. P., Glimcher, L. H. Distinct effects of T-bet in T(H)1 lineage commitment and IFN-gamma production in CD4 and CD8 T cells. Science 295: 338-342, 2002. 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, supported by ABIN921231 in IHC(P). |
| Restrictions: | For Research Use only |

## Handling

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| 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 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. Carrier free (No BSA) |
| Preservative: | Sodium azide, Without preservative |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE 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

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| 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).<br><br>Li, Wu, Hang, Zhang, Li: "Women with recurrent spontaneous abortion have decreased 25(OH) |

## Publications

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.** Western blot analysis of IFN gamma using anti-IFN gamma antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane: Recombinant Human IFN gamma Protein 0.5ng After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IFN gamma antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody

at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IFN gamma at approximately 17KD. The expected band size for IFN gamma is at 17KD.