abcam

Product datasheet

Anti-Interferon gamma antibody ab9657

13 Abreviews 92 References 2 Images

Overview

Product name	Anti-Interferon gamma antibody
Description	Rabbit polyclonal to Interferon gamma
Host species	Rabbit
Tested applications	**Suitable for:** Sandwich ELISA, WB
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein corresponding to Human Interferon gamma. Mature Interferon gamma is from aa 24-161 of SwissProt ID Q14609. aa 1-23 represents the signal peptide. Database link: **Q14609** Run BLAST with Run BLAST with
Positive control	WB: Recombinant human Interferon gamma protein (**ab9659**). Sandwich ELISA: Recombinant human Interferon gamma protein (**ab9659**).
General notes	This product is no longer batch tested in IHC, for an IHC validated antibody please see **ab231036**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Lyophilized:Reconstitute with 200µl of sterile water.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	No preservative, sterile filtered
Purity	Protein A purified
Purification notes	affinity chromatography employing immobilized Human IFN-gamma matrix.
Clonality	Polyclonal

Isotype	IgG
Light chain type	unknown

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9657 in the following tested applications.

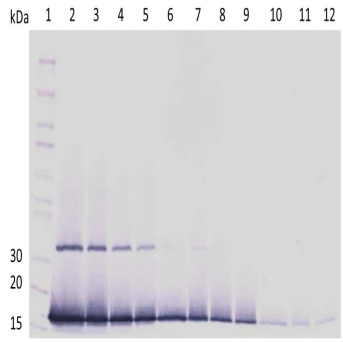
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use a concentration of 0.5 - 2 µg/ml. Detects IFN-gamma by sandwich ELISA using 100µl/well antibody solution. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant hIFN-gamma. Can be paired for ELISA with **ab9658**.
WB	★★★★★ **(4)**	Use a concentration of 0.1 - 0.2 µg/ml. Predicted molecular weight: 17 kDa. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIFN-gamma is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Target

Function	Produced by lymphocytes activated by specific antigens or mitogens. IFN-gamma, in addition to having antiviral activity, has important immunoregulatory functions. It is a potent activator of macrophages, it has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons.
Tissue specificity	Released primarily from activated T lymphocytes.
Involvement in disease	In Caucasians, genetic variation in IFNG is associated with the risk of aplastic anemia (AA) [MIM:609135]. AA is a rare disease in which the reduction of the circulating blood cells results from damage to the stem cell pool in bone marrow. In most patients, the stem cell lesion is caused by an autoimmune attack. T-lymphocytes, activated by an endogenous or exogenous, and most often unknown antigenic stimulus, secrete cytokines, including IFN-gamma, which would in turn be able to suppress hematopoiesis.
Sequence similarities	Belongs to the type II (or gamma) interferon family.
Post-translational modifications	Proteolytic processing produces C-terminal heterogeneity, with proteins ending alternatively at Gly-150, Met-157 or Gly-161.
Cellular localization	Secreted.

Images



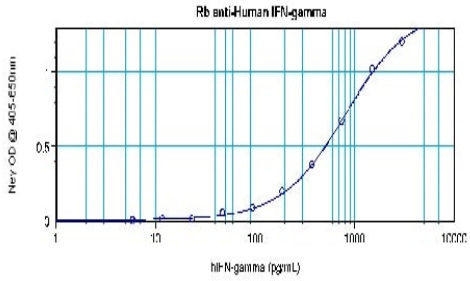
Western blot - Anti-Interferon gamma antibody (ab9657)

Lanes 2-12 : Anti-Interferon gamma antibody (ab9657) at 0.1 µg/ml

Lane 1 : Marker
Lanes 2-12 : Recombinant human Interferon gamma protein (Active) (**ab9659**)

Performed under non-reducing conditions.

Predicted band size: 17 kDa



Sandwich ELISA - Anti-Interferon gamma antibody (ab9657)

To detect Human IFN-γ by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with a compatible secondary detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Human IFN-γ.

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