**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.

Sequence:

```
MQDPYVKEAENLKKYFNAGHSVDVADNLFLGLIKNWKE
ESDRKIMQSQQSFYFKLFKNFKDDQSIQKS
VETKEDMN
KFFNKKCRDDFEKLTNYSTDLNVQRKAIHELQVMAEL
SPAaktgkrksqmlfqsgrasq
```

Database link: Q14609

**Positive control**

Purchase matching WB positive control:

**Recombinant human Interferon gamma protein**


**General notes**

This product is no longer batch tested in IHC, for an IHC validated antibody please see ab231036.

**Properties**

**Form**  
Lyophilized: Reconstitute with 200µl of sterile water.

**Storage instructions**  

**Storage buffer**  
pH: 7.40

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

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.

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>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.</td>
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<tr>
<td>WB</td>
<td></td>
<td>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.</td>
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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
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

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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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