

**Anti-IFN γ Reference Antibody (fontolizumab)
Recombinant Antibody
Catalog # APR10220****Specification**

Anti-IFN γ Reference Antibody (fontolizumab) - Product Information

Application	FC, E, FTA
Primary Accession	P01579
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145 KDa

Anti-IFN γ Reference Antibody (fontolizumab) - Additional Information**Target/Specificity**IFN γ **Endotoxin**< 0.001EU/ μ g, determined by LAL method.**Conjugation**

Unconjugated

Expression system

CHO Cell

Format

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

Anti-IFN γ Reference Antibody (fontolizumab) - Protein Information**Name** IFN γ **Function**

Type II interferon produced by immune cells such as T-cells and NK cells that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed: [16914093](http://www.uniprot.org/citations/16914093), PubMed: [8666937](http://www.uniprot.org/citations/8666937)). Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation (PubMed: [8349687](http://www.uniprot.org/citations/8349687)). Upon IFN γ binding, IFNGR1 intracellular domain opens out to allow association of downstream signaling components JAK2, JAK1 and STAT1, leading to STAT1 activation, nuclear translocation and transcription of IFN γ -regulated genes. Many of the induced genes are transcription factors such as IRF1 that are able to further drive regulation of a next wave of transcription (PubMed: [16914093](http://www.uniprot.org/citations/16914093)). Plays a role

in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits (PubMed:8666937). In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading (PubMed:8163024). Increases the efficiency of peptide generation also by inducing the expression of activator PA28 that associates with the proteasome and alters its proteolytic cleavage preference (PubMed:11112687). Up-regulates as well MHC II complexes on the cell surface by promoting expression of several key molecules such as cathepsins B/CTSB, H/CTSH, and L/CTSL (PubMed:7729559). Participates in the regulation of hematopoietic stem cells during development and under homeostatic conditions by affecting their development, quiescence, and differentiation (By similarity).

Cellular Location

Secreted.

Tissue Location

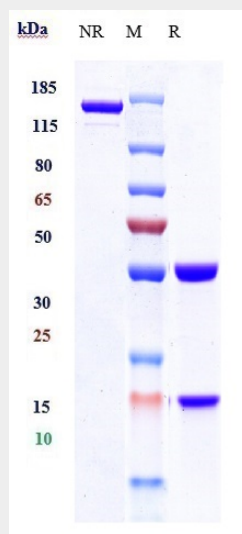
Released primarily from activated T lymphocytes.

Anti-IFN γ Reference Antibody (fontolizumab) - Protocols

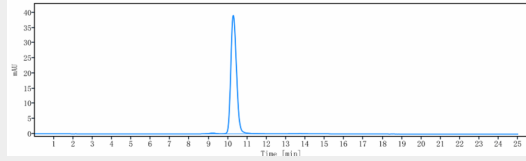
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

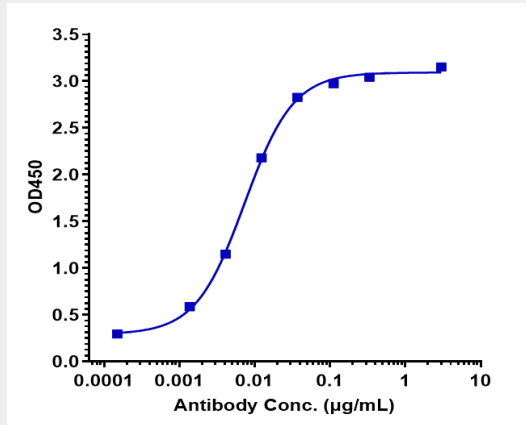
Anti-IFN γ Reference Antibody (fontolizumab) - Images



Anti-IFN γ Reference Antibody (fontolizumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-IFN γ Reference Antibody (fontolizumab) is more than 95% ,determined by SEC-HPLC.



Immobilized human IFN γ His at 2 $\mu\text{g/mL}$ can bind Anti-IFN γ Reference Antibody (fontolizumab) \square EC₅₀=0.007326 $\mu\text{g/mL}$