

Recombinant human Interferon gamma protein (Active) ab9659

4 References 3 图像

描述	
产品名称	重组人Interferon gamma蛋白(Active)
生物活性	The ED ₅₀ determined by a cytotoxicity assay using HT-29 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10 ⁷ units/mg.
纯度	> 98 % SDS-PAGE. >98%% HPLC analyses. Sterile filtered.
内毒素水平	< 1.000 Eu/μg
表达系统	Escherichia coli
Accession	<u>Q14609</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTGKR KRSQMLFQGR RASQ
预测分子量	17 kDa
氨基酸	1 to 144

技术指标	
Our Abpromise guarantee covers the use of ab9659 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	Functional Studies SDS-PAGE HPLC
形式	Lyophilized

制备和贮存

稳定性和存储

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituent: PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

复溶

Centrifuge vial prior to opening. Reconstitute in 100 µl 1x PBS, pH 8.0 to a concentration of 1.0 mg/ml. Do not vortex. Long term storage: Follow reconstitution with further dilution in a buffer containing a carrier protein (example; 0.1% BSA).

常规信息

功能

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.

组织特异性

Released primarily from activated T lymphocytes.

疾病相关

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.

序列相似性

Belongs to the type II (or gamma) interferon family.

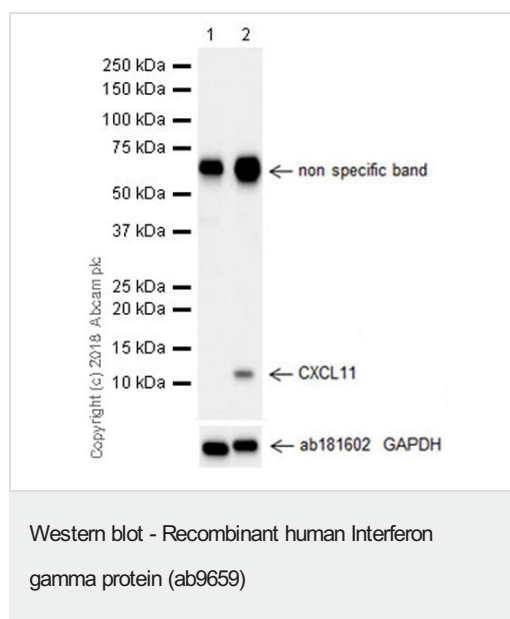
翻译后修饰

Proteolytic processing produces C-terminal heterogeneity, with proteins ending alternatively at Gly-150, Met-157 or Gly-161.

细胞定位

Secreted.

图片



All lanes : Anti-CXCL11 antibody [EPR21755-173] ([ab216157](#)) at 1/1000 dilution

Lane 1 : THP-1 (human monocytic leukemia cell line) whole cell lysate

Lane 2 : THP-1 treated with 200 ng/ml interferon-gamma (IFN-gamma, ab9659) and 50 ng/ml lipopolysaccharide (LPS) for 24 hours, then 300 ng/ml Brefeldin A (BFA) was added to the treated cells for 20 hours, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000

dilution

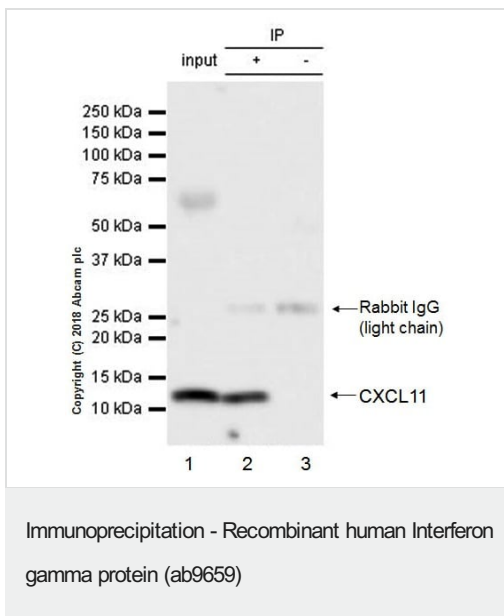
Developed using the ECL technique.

Observed band size: 11 kDa

Exposure time: 37 seconds

Blocking/Dilution: 5% NFDM/TBST

The expression profile observed is consistent with what has been described in the literature (PMID: 17142784).



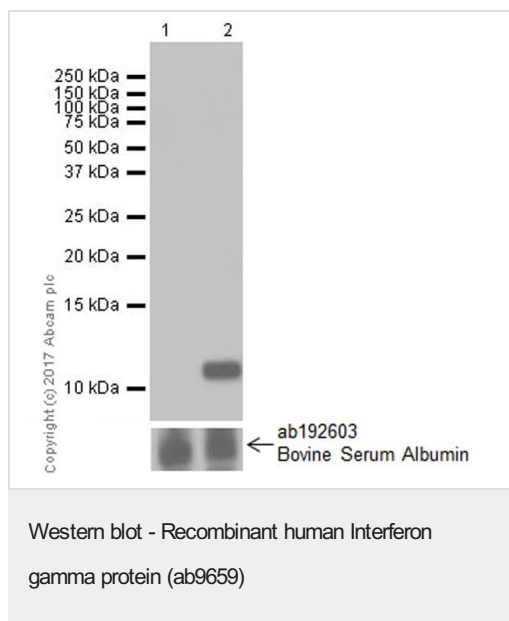
CXCL11 was immunoprecipitated from 0.35mg of THP-1 (human monocytic leukemia cell line) whole cell lysate with **ab216157** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab216157** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: THP-1 (human monocytic leukemia cell line) treated with 200 ng/ml interferon-gamma (IFN-gamma, ab9659) and 50 ng/ml lipopolysaccharide (LPS) for 24 hours, then added 300 ng/ml Brefeldin A (BFA) for 20 hours, whole cell lysate 10ug (Input).

Lane 2: **ab216157** IP in THP-1 treated with 200 ng/ml interferon-gamma (IFN-gamma, ab9659) and 50 ng/ml lipopolysaccharide (LPS) for 24 hours, then added 300 ng/ml Brefeldin A (BFA) for 20 hours, whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab216157** in THP-1 treated with 200 ng/ml interferon-gamma (IFN-gamma, ab9659) and 50 ng/ml lipopolysaccharide (LPS) for 24 hours, then added 300 ng/ml Brefeldin A (BFA) for 20 hours, whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST



All lanes : Anti-IP10 antibody [EPR20764] ([ab214668](#)) at 1/1000 dilution

Lane 1 : Untreated THP-1 (human monocytic leukemia cell line) culture supernatant

Lane 2 : THP-1 treated with 200 ng/ml interferon-gamma (IFN-gamma, ab9659) and 50 ng/ml lipopolysaccharides (LPS) for 24 hours, culture supernatant

Lysates/proteins at 15 µl per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 12 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

IP10 protein secretion can be induced by IFN-gamma treatment (PMID: 11907072).

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