

# Recombinant Human IFN gamma Receptor beta/AF-1 protein (Fc Chimera) ab83988

2 Images

Description

|                                 |   |  |  |
|---------------------------------|---|--|--|
| Product name                    | Recombinant Human IFN gamma Receptor beta/AF-1 protein (Fc Chimera)   |  |  |
| Purity                          | > 95 % SDS-PAGE.  |  |  |
| Expression system               | HEK 293 cells   |  |  |
| Accession                       | <u>P38484</u>   |  |  |
| Protein length                  | Protein fragment  |  |  |
| Animal free                     | No  |  |  |
| Nature                          | Recombinant   |  |  |
| Species                         | Human   |  |  |
| Sequence                        | <div>Theoretical sequence:<br/>SQLPAPQHPKIRLYNAEQVLSWEPVALSNSTRPVVYRVQF<br/>KYTDSKWF<br/>TADIMSIGVNCTQITATECDFTAASPSAGFPMDFNVTLRRLR<br/>AELGALH<br/>SAWVTMPWFQHYRNVTVGPPENIEVTPGEGSLIIRFSSPF<br/>DIADTSTA<br/>FFCYVWHYWEKGGIQQVKGPFRSNSISLDNLKPSRVYCLQ<br/>VQAQLLWN<br/>KSNIFRVGHLSNISCYETMADASTELQQGSSNTKVDKKVE<br/>PKSCDKTH<br/>TCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV<br/>DVSHEDPE<br/>VKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQ<br/>DWLNGKEYK<br/>CKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTK<br/>NQVSLTCL<br/>VKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLY<br/>SKLTVDKSR<br/>WQQGNVFSCSVMHEALHNHYTQKSLSLSPGK</div> |  |  |
| Amino acids                     | 28 to 247   |  |  |
| Additional sequence information | DNA encoding the signal peptide and extracellular domain of human IFN-gamma R2 (aa 1-247) chain was fused to the Fc region of human IgG1 (aa 93-330). Protein expressed in modified   |  |  |

human 293 cells.

## Specifications

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Our **Abpromise guarantee** covers the use of **ab83988** in the following tested applications.

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

|                         |   |
|-------------------------|---|
| <b>Applications</b>     | SDS-PAGE  |
| <b>Form</b>             | Lyophilized                                     |
| <b>Additional notes</b> | Previously labelled as IFN gamma Receptor beta. |

## Preparation and Storage

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|                              |  |
|------------------------------|--|
| <b>Stability and Storage</b> | Shipped at 4°C. Store at +4°C.<br><br>Constituents: 1% Human serum albumin, 10% Trehalose  |
| <b>Reconstitution</b>        | It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended. |

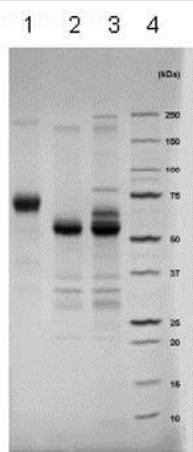
## General Info

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|                               |   |
|-------------------------------|---|
| <b>Function</b>               | Part of the receptor for interferon gamma. Required for signal transduction. This accessory factor is an integral part of the IFN-gamma signal transduction pathway and is likely to interact with GAF, JAK1, and/or JAK2.  |
| <b>Involvement in disease</b> | Defects in IFNGR2 are a cause of mendelian susceptibility to mycobacterial disease (MSMD) [MIM:209950]; also known as familial disseminated atypical mycobacterial infection. This rare condition confers predisposition to illness caused by moderately virulent mycobacterial species, such as Bacillus Calmette-Guerin (BCG) vaccine and environmental non-tuberculous mycobacteria, and by the more virulent Mycobacterium tuberculosis. Other microorganisms rarely cause severe clinical disease in individuals with susceptibility to mycobacterial infections, with the exception of Salmonella which infects less than 50% of these individuals. The pathogenic mechanism underlying MSMD is the impairment of interferon-gamma mediated immunity, whose severity determines the clinical outcome. Some patients die of overwhelming mycobacterial disease with lepromatous-like lesions in early childhood, whereas others develop, later in life, disseminated but curable infections with tuberculoid granulomas. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance. |
| <b>Sequence similarities</b>  | Belongs to the type II cytokine receptor family.<br>Contains 2 fibronectin type-III domains.  |
| <b>Cellular localization</b>  | Membrane.   |

## Images

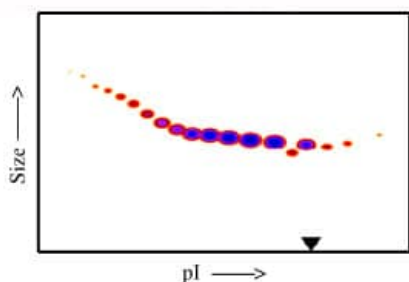
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SDS-PAGE - Recombinant Human IFN gamma  
Receptor beta/AF-1 protein (Fc Chimera) (ab83988)

Lane 1 – ab83988; Lane 2 – ab83988 treated with PNGase F to remove potential N-linked glycans; Lane 3 – ab83988 treated with a glycosidase cocktail to remove potential N- and O-linked glycans; Lane 4 – MW markers. 10 µg of protein was loaded per lane; Gel was stained with Coomassie G250.

Drop in MW after treatment with PNGase F indicates the presence of N-linked glycans. Faint bands in lane 2 and lane 3 are glycosidase enzymes.



Functional Studies - Recombinant Human IFN  
gamma Receptor beta/AF-1 protein (Fc Chimera)  
(ab83988)

Post-translational modifications result in protein heterogeneity. The densitometry scan demonstrates the purified human cell expressed protein exists in multiple glycoforms, which differ according to their level of post-translational modification.

The triangle indicates theoretical pI and MW of the protein.

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

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