

Product datasheet

Recombinant Human IFNGR1 protein ab181887

1 References 1 Image

Description	
Product name	Recombinant Human IFNGR1 protein
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	<u>P15260</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	EMGTADLGPSSVPTPTNVTIESYNMNPVYWEYQIMPQVP VFTVEVKNYG VKNSEWIDACINISHHYCNISDHVGDPSNSLWVRVKARVG QKESAYAKSE EFAVCRDGKIGPPKLDIRKE EKQIMIDIFHPSVVFVNGDEQEVDYDPET TCYIRVYNVYVRMNGSEIQYKILTQKEDDCDEIQCQLAIPVS SLNSQYCV SAEGVLHVWGVTTTEKSKEVCITIFNSSIKG
Predicted molecular weight	52 kDa including tags
Amino acids	18 to 245
Additional sequence information	Fused with Fc fragment of Human IgG1 at the C-terminus (AAH05333).

Specifications	
Our Abpromise guarantee covers the use of ab181887 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage	
Stability and Storage	Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -80°C. Avoid freeze / thaw cycle. For

long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

pH: 7.4

Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose

Reconstitution

Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

General Info

Function

Receptor for interferon gamma. Two receptors bind one interferon gamma dimer.

Involvement in disease

Defects in IFNGR1 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.

Sequence similarities

Belongs to the type II cytokine receptor family.

Contains 2 fibronectin type-III domains.

Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

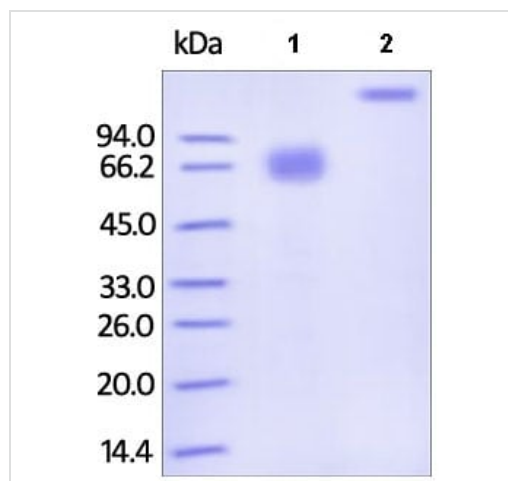
Post-translational modifications

Phosphorylated at Ser/Thr residues.

Cellular localization

Membrane.

Images



SDS-PAGE - Recombinant Human IFNGR1 protein
(ab181887)

SDS-PAGE analysis of ab181887 stained overnight with Coomassie Blue.

Lane 1: DTT-reduced

Lane 2: Non-reduced

As a result of glycosylation, DTT-reduced protein migrates as 75-100 kDa and non-reduced protein migrates as 150-170 kDa.

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