

Product datasheet

Recombinant Human IL-2RG protein (Fc Chimera)
 ab84065

3 Images

Description

Product name Recombinant Human IL-2RG protein (Fc Chimera)

Purity > 95 % SDS-PAGE.

Expression system HEK 293 cells

Accession [P31785](#)

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Sequence Theoretical Sequence:
 LNTTILTPNGNEDTTADFFLTTMPTDLSLSVSTLPLPEVQ
 CFVFNVEYM
 NCTWNSSEEPQPTNLTLHYWYKNSDNDKVQKCSHYLFSE
 EITSGCQLQ
 KKEIHLYQTFVVQLQDPREPRRQATQMLKLQNLVIPWAP
 ENLTLHKLS
 ESQLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDY
 R HKFSLPSVD
 GQKRYTFRVRSRFNPLCGSAQHWSEWSHPIHWGSNTSK
 E NPFLFAWIP
 KVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPK
 DTLISRTP
 EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQ
 YNSTYRVVSV
 LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPR
 EPQVYTLPP
 SRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK
 TTPPVLDSD
 GSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKS
 LSLSPGK

Amino acids 23 to 259

Additional sequence information DNA sequence encoding the signal peptide and extracellular domain of human IL 2R gamma (aa

1-259) was fused to the Fc region of human IgG1 (aa 93-330). Protein expressed in modified human 293 cells.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab84065** 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
Additional notes	Protein previously labeled as IL2 Receptor gamma.

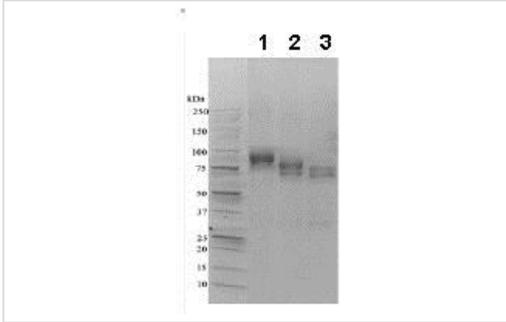
Preparation and Storage

Stability and Storage	Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles. Constituents: 1% Human serum albumin, 10% Trehalose
Reconstitution	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

Function	Common subunit for the receptors for a variety of interleukins.
Involvement in disease	Defects in IL2RG are the cause of severe combined immunodeficiency X-linked T-cell-negative/B-cell-positive/NK-cell-negative (XSCID) [MIM:300400]; also known as agammaglobulinemia Swiss type. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Defects in IL2RG are the cause of X-linked combined immunodeficiency (XCID) [MIM:312863]. XCID is a less severe form of X-linked immunodeficiency with a less severe degree of deficiency in cellular and humoral immunity than that seen in XSCID.
Sequence similarities	Belongs to the type I cytokine receptor family. Type 5 subfamily. Contains 1 fibronectin type-III domain.
Domain	The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation.
Cellular localization	Membrane.

Images



SDS-PAGE - Recombinant Human IL-2RG protein (Fc Chimera) (ab84065)

1D SDS-PAGE of ab84065 before and after treatment with glycosidases to remove oligosaccharides.

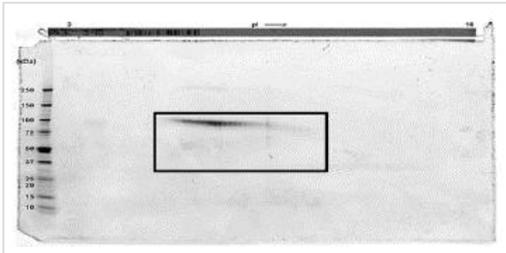
Lane 1: ab84065

Lane 2: ab84065 treated with PNGase F to remove potential N-linked glycans

Lane 3: ab84065 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.

10 µg protein loaded per lane; Deep Purple™ stained.

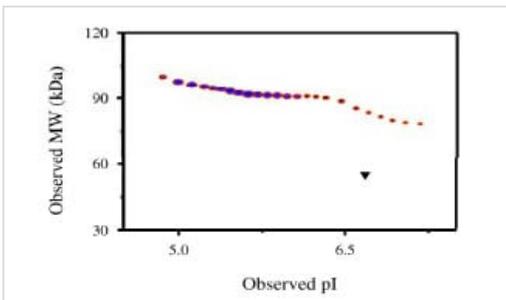
Drop in MW after treatment with PNGase F indicates presence of N-linked glycans. Subsequent drop in MW after treatment with glycosidase cocktail indicates presence of O-linked glycans. Faint bands in lane 2 and lane 3 are glycosidase enzymes.



SDS-PAGE - Recombinant Human IL-2RG protein (Fc Chimera) (ab84065)

A sample of ab84065 without carrier protein was reduced and alkylated and focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel.

40 µg protein loaded per lane; Deep Purple™ stained. Spot train indicates presence of multiple isoforms. Spots within the spot train were cut from the gel and identified as IL-2RG (Fc Chimera) by protein mass fingerprinting.



Functional Studies - Recombinant Human IL-2RG protein (Fc Chimera) (ab84065)

Densitometry of protein isoforms visualised by 2-DE.

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

The triangle indicates the theoretical MW and pI of the protein.

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