abcam

Product datasheet

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

画像数 3

製品の詳細

製品名	Recombinant Human IL-2RG protein (Fc Chimera)
精製度	> 95 % SDS-PAGE.
発現系	HEK 293 cells
アクセッション番号	P31785
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	Theoretical Sequence: LNTTILTPNGNEDTTADFFLTTMPTDSLSVSTLPLPEVQ CFVFNVEYM NCTWNSSSEPQPTNLTLHYWYKNSDNDKVQKCSHYLFSE EITSGCQLQ KKEIHLYQTFVVQLQDPREPRRQATQMLKLQNLVIPWAP ENLTLHKLS ESQLELNWNNRFLNHCLEHLVQYRTDWDHSWTEQSVDYR HKFSLPSVD GQKRYTFRVRSRFNPLCGSAQHWSEWSHPIHWGSNTSKE NPFLFAWIP KVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPK DTLMISRTP EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY NSTYRVVSV LTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPR EPQVYTLPP SRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK TTPPVLDSD GSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKS LSLSPGK
領域	23 to 259
配列の追加情報	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.

特性

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.

アプリケーション	SDS-PAGE
製品の状態	Lyophilized
備考	Protein previously labeled as IL2 Receptor gamma.

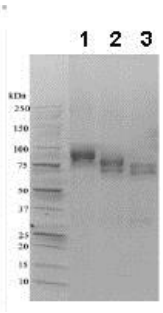
前処理および保存

保存方法および安定性	Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. Constituents: 1% Human serum albumin, 10% Trehalose
再構成	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.

関連情報

機能	Common subunit for the receptors for a variety of interleukins.
関連疾患	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.
配列類似性	Belongs to the type I cytokine receptor family. Type 5 subfamily. Contains 1 fibronectin type-III domain.
ドメイン	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.
細胞内局在	Membrane.

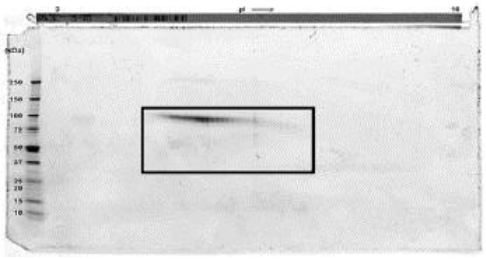
画像



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

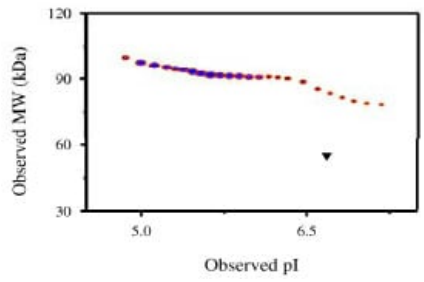
1D SDS-PAGE of ab84065 before and after treatment with glycosidases to remove oligosaccharides.
Lane 1: ab84065
Lane 2: ab84065 treated with PNGase F to remove potential N-linked glycans
Lane 3: ab84065 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.
10 µg protein loaded 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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