

Recombinant human IL-2 Receptor alpha protein (Fc Chimera) ab84071

3 Images

Description	
Product name	Recombinant human IL-2 Receptor alpha protein (Fc Chimera)
Purity	> 95 % SDS-PAGE.
Expression system	HEK 293 cells
Accession	<u>P01589</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<div>Theoretical Sequence: ELCDDDPPEIPHATFKAMAYKEGTM LNCECKRGFRRIKSG SLYMLCTG NSSHSSWDNQCQCTSSATRN TTQVTPQPEEQKERKTT EMQSPMQPVD QASLPGHCREPPPWENEATERIYHFVVGQMVYYQCVQGY RALHRGPAE SVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPE GRPESETSC LVTTTDFQIQTEMAATMETSIFTTGIPKVDKKVEPKSCDKT HTCPPCP APELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHED PEVKFNWY VDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK EYKCKVSNK ALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTC LVKGFYP SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK SRWQQGNV FSCSV MHEALHNHYTQKSLSLSPGK</div>
Amino acids	22 to 237

Specifications

Our **Abpromise guarantee** covers the use of **ab84071** 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	ab84071 bound to protein A sepharose beads is able to pull down its ligand, IL2.

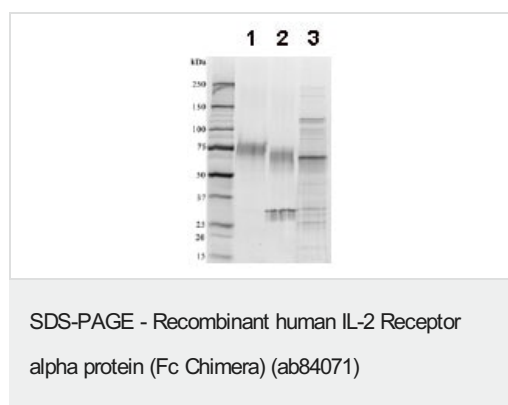
Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.</p> <p>Constituents: 1% Human serum albumin, 10% Trehalose</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	<p>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.</p>

General Info

Function	Receptor for interleukin-2.
Involvement in disease	Genetic variations in IL2RA are associated with susceptibility to diabetes mellitus insulin-dependent type 10 (IDDM10) [MIM:601942]. A multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical features are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These derangements result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels.
Sequence similarities	Contains 2 Sushi (CCP/SCR) domains.
Cellular localization	Membrane.

Images



1D SDS-PAGE of ab84071 before and after treatment with glycosidases to remove oligosaccharides.

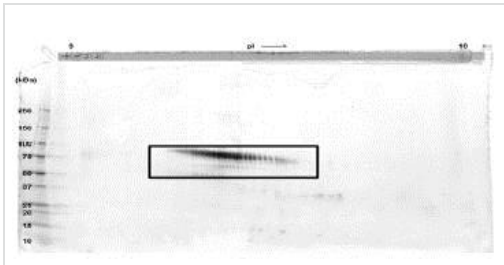
Lane 1: ab84071

Lane 2: ab84071 treated with PNGase F to remove potential N-linked glycans

Lane 3: ab84071 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 tightening of band after treatment with glycosidase cocktail suggests presence of O-linked glycans. Additional bands in lane 2 and lane 3 are glycosidase enzymes.

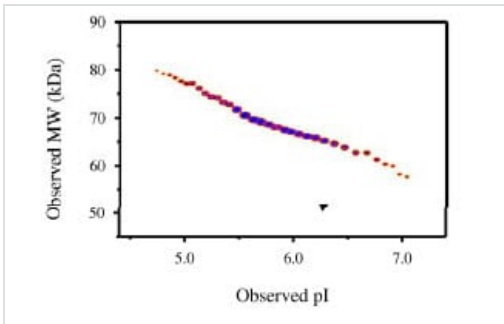


SDS-PAGE - Recombinant human IL-2 Receptor
alpha protein (Fc Chimera) (ab84071)

A sample of ab84071 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.

40µg 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 IL2 Receptor alpha (Fc Chimera) by protein mass fingerprinting.



Functional Studies - Recombinant human IL-2
Receptor alpha protein (Fc Chimera) (ab84071)

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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