abcam

Product datasheet

Recombinant Human IL3RA/CD123 protein (Fc Chimera) ab88358

1 References 3 Images

Description

Product name	Recombinant Human IL3RA/CD123 protein (Fc Chimera)
Purity	> 95 % SDS-PAGE. Determined by SDS-PAGE and visualized by silver stain. Purified by native chromatography methods without the use of molecular tags.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	P26951
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	TKEDPNPPITNLRMKAKAQQLTWDLNRNVTDIECVKDADY SMPAVN NS YCQFGAISLCEVTNYTVRVANPPFSTWILFPENSGKPWAG AENL TCWI HDVDFLSCSWAVGPGAPADVQYDLYLNVANRRQQYECL HYKT DAQGTR IGCRFDDISRLSSGSQSSHILVRGRSAAFGIPCTDKFVVF SQIEILTP PNMTAKCNKTHSFMHWKMRSHFNRKFRYELQIQKRMQP VITEQVRDRT SFQLLNPGTYTVQIRARERVYEFLSAWSTPQRFECD QEEGANTRGGRV DGIQWIPKVDKKVEPKSCDKTHTCPPCPAPELLG GPSVFLFPPKPKDT LMISRTPEVTCVVVDVSHEDPEVKFNWYVDGV EVHNAKTKPREEQYNS TYRVVSVLTVLHQDWLNGKEYKCRVSNKAL PAPIEKTISKAKGQPREP QVYTLPPSRDELTKNQVSLTCLVKGFYP SDIAVEWESNGQPENNYKTT PPVLDSDGSFFLYSKLTVDKSRWQQG

NVFSCSVMHEALHNHYTQKSLS LSPGK

Amino acids	19 to 302
Tags	Fc tag C-Terminus
Additional sequence information	DNA sequence encoding the signal peptide and extracellular domain of human IL3R alpha (aa 1-18) 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 **ab88358** 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	Previously labelled as IL3RA. Molecular Mass: ab88358 migrates as a broad band between 85 and 100 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified protein that has a predicted molecular mass of 60.6 kDa. ab88358 consists of 25-40% carbohydrate by weight. pI: ab88358 separates into a number of isoforms with a pI between 6.2 and 9.0 in 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified protein that has a predicted pI of 8.43. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

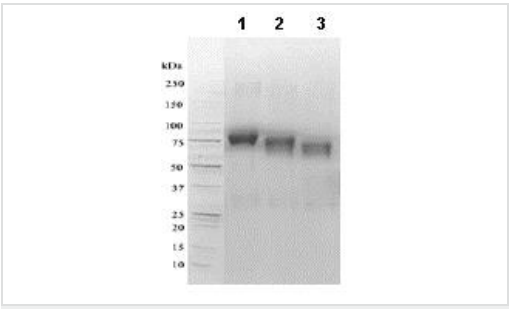
Preparation and Storage

Stability and Storage	Shipped at 4°C. After reconstitution store at -20ºC. 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	This is a receptor for interleukin-3.
Sequence similarities	Belongs to the type I cytokine receptor family. Type 5 subfamily.
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



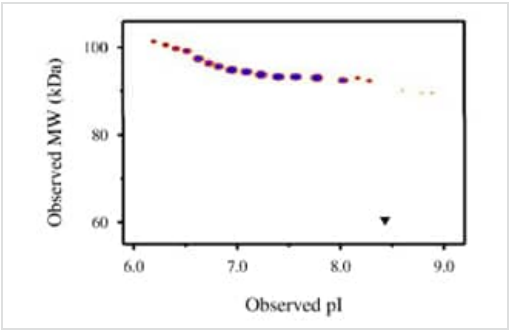
SDS-PAGE - Recombinant Human IL3RA/CD123 protein (Fc Chimera) (ab88358)

1D SDS-PAGE of ab88358 before and after treatment with glycosidases to remove oligosaccharides.
Lane 1: ab88358
Lane 2: ab88358 treated with PNGase F to remove potential N-linked glycans
Lane 3: ab88358 treated with a glycosidase cocktail to remove potential N- and O-linked glycans.

Drop in MWt after treatment with PNGase F indicates presence of N-linked glycans. Subsequent drop in MWt 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 IL3RA/CD123 protein (Fc Chimera) (ab88358)

A sample of ab88358 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. Spot train indicates presence of multiple isoforms of ab88358.



Functional Studies - Recombinant Human IL3RA/CD123 protein (Fc Chimera) (ab88358)

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 MWt and pI of the protein.

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