

Recombinant Human Leptin Receptor protein (Fc Chimera) ab155615

1 Image

Description	
Product name	Recombinant Human Leptin Receptor protein (Fc Chimera)
Purity	> 90 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	HEK 293 cells
Accession	<u>P48357</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<div>FNLSYPITPWRFKLSCMPPNSTYDYFLLPAGLSKNTSNSN GHYETAVEPK FNSSGTHFSN LSKTTFHCCFRSEQDRNCSLCADNIEGKTFVSTVNSLV FQQIDANWNIQCWLKGDCLKFI CYVESLFKNLFRNYYNYKVHLLYVLPE VLEDSPLPQKGSFQMVHCNCSVHECCECLVPVP TAKLNDTLLMCLKI TSGGVIFQSPLMSVQPINMVKPDPLGLHMEITDDGNLKIS WSSPP LV PFPLQYQVKYSENSTTVIREADKMSATSLLVDSILPGSSYE VQVRGKRL DGPGIWS WSTPRVFTTQDVYFPPKILTSVGSNVSFHCYKKNKIV PSKENWWWMNLAEKIPQSQY DVVSDHVSQVTFNLFNETKPRGKFTYDA VYCCNEHECHRYAELYVIDVNINISCETDGY LTKMTCRWSTSTIQSL AESTLQLRYHRSSLYCSDIPSIHPISEPKDCYLQSDGFYECI FQ PIFL LSGYTMWIRINHSLGSLDSPPTCVLPDSVVKPLPPSSVKA EITINIGLLK ISWEKP VFPENNLOFQIRYGLSGKEVQWKMYEVYDAKSKSVSLPV PDL CAVYAVQVRCKRLDGLGY</div>

WSNWSNPAYTVVMDIKVPMRGPEFWRIING
DTMKKEKNVTLLWKPLMKNDSLCSVQRYVI
NHHTSCNGTWSEDVGNHT
KFTFLWTEQAHTVTVLAINSIGASVANFNLTFSWPMSKVNI
V QSLSAY
PLNSSCVVSWILSPSDYKLMYFIIIEWKNLNEDGEIKWLRIS
SSVKKYYI HDHF
IPIEKYQFSLYPIFMEGVGKPKIINSFTQDDIEKHQSD

Predicted molecular weight	120 kDa including tags
Amino acids	22 to 839
Tags	Fc tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab155615** 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	This product is stable after storage at: -20 °C to -70 °C for 12 months in lyophilized state; -70 °C for 3 months under sterile conditions after reconstitution.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 0.6057% Tris, 0.7507% Glycine
Reconstitution	Reconstitute with sterile deionized water to a concentration of 300 µg/ml.

General Info

Function	Receptor for obesity factor (leptin). On ligand binding, mediates signaling through JAK2/STAT3. Involved in the regulation of fat metabolism and, in a hematopoietic pathway, required for normal lymphopoiesis. May play a role in reproduction. Can also mediate the ERK/FOS signaling pathway.
Tissue specificity	Isoform A is expressed in fetal liver and in hematopoietic tissues and choroid plexus. In adults highest expression in heart, liver, small intestine, prostate and ovary. Low level in lung and kidney. Isoform B is highly expressed in hypothalamus.
Sequence similarities	Belongs to the type I cytokine receptor family. Type 2 subfamily. Contains 4 fibronectin type-III domains. Contains 1 Ig-like (immunoglobulin-like) domain.
Domain	The cytoplasmic domain may be essential for intracellular signal transduction by activation of JAK tyrosine kinase and STATs. The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

Post-translational modifications

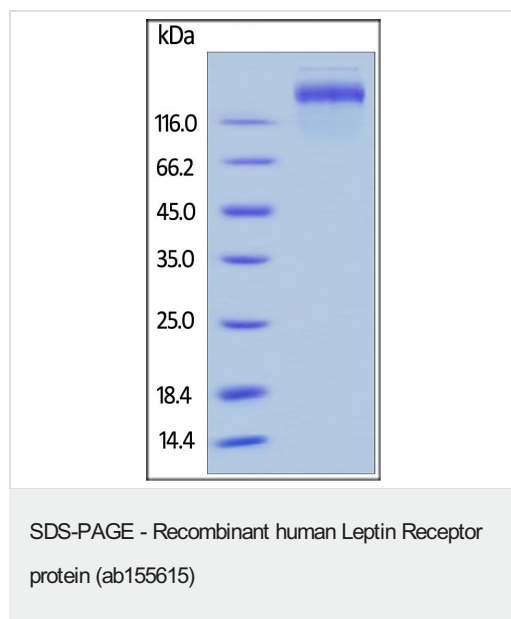
The box 1 motif is required for JAK interaction and/or activation.

On ligand binding, phosphorylated on two conserved C-terminal tyrosine residues (isoform B only) by JAK2. Tyr-986 is required for complete binding and activation of PTPN11, ERK/FOS activation and, for interaction with SOCS3 (By similarity). Phosphorylation on Tyr-1141 is required for STAT3 binding/activation.

Cellular localization

Secreted and Cell membrane.

Images



SDS-PAGE of reduced ab155615 stained overnight with Coomassie Blue. The protein migrates as 150-165 kDa due to glycosylation.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors