

Product datasheet

Recombinant Human IL-12RB2 protein ab158762

1 Image

Overview

<b>Product name</b>	Recombinant Human IL-12RB2 protein
<b>Protein length</b>	Full length protein

Description

**Nature** Recombinant

**Source** Wheat germ

**Amino Acid Sequence**

**Species** Human

**Sequence**

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSH  
 VILLGSTVNIT  
 CSLKPRQGCFFHYSRRNKLILYKFDRRINFHHGHSLSNSQ  
 VTGLPLGTTLFV  
 CKLACINSDEIQICGAEIFVGVAPEQPQNLSCIQKGEQG  
 TVACTWERGRD  
 THLYTEYTLQLSGPKNLTWQKQCKDIYCDYLDYDFGINLTP  
 ESPESNFTAKV  
 TAVNSLGSSSSLPSTFTFLDIVRPLPPWDIRIKFQKASV  
 SRCTLYWRDEG  
 LVLLNRLRYRPSNSRLWNMVNVTAKGRHDLDDLKPF  
 TEYEFQISSKLHL  
 YKGSWSDWSESLRAQTPEEEPTGMLDVWYMKRHIDY  
 SRQQISLFWKNLSV  
 SEARGKILHYQVTLQELTGGKAMTQNTGHTSWTTVIPR  
 TGNWAVAVSAA  
 NSKGSSLPTRINIMNLCEAGLLAPRQVSANSEGMDNIL  
 VTWQPPRKDPSA  
 VQEYVVEWRELHPGGDTQVPLNWLRSPYNV/SALISE  
 NIKSYICYEIRVY  
 ALSGDQGGCSSILGNSKHKAPLSGPHINAITEEKGSILIS  
 WNSIPVQEQM  
 GCLLHYRIYWKERDSNSQPQLCEIPYRV/SQNSHPINSL  
 QPRVTYVLWMTA  
 LTAAGESHGNEREFCLQGKANWMAFVAPSICIAIMV  
 GIFSTHYFQQKV  
 FVLLAALRPQWCSREIPDPANSTCAKKYPIAEEKTQLP

LDRLLDWPTPE  
DPEPLVISEVLHQVTPVFRHPPCSNWPQREKGIQGHQ  
ASEKMMMHSASSP  
PPPRALQAESRQLVDLYKVLERSGSDPKPENPACPW  
TVLPAGDLPTHGTY  
LPSNIDDLPSHEAPLADSLEELEPQHISLSVFPSSSLH  
PLTFSCGDKLTL DQLKMRCDLML

**Amino acids** 1 to 862  
**Tags** proprietary tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab158762** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Western blot  
ELISA  
**Form** Liquid  
**Additional notes** Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

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**Function** Receptor for interleukin-12. This subunit is the signaling component coupling to the JAK2/STAT4 pathway. Promotes the proliferation of T-cells as well as NK cells. Induces the promotion of T-cells towards the Th1 phenotype by strongly enhancing IFN-gamma production.

**Tissue specificity** Isoform 2 is expressed at similar levels in both naive and activated T-cells.

**Sequence similarities** Belongs to the type I cytokine receptor family. Type 2 subfamily.  
Contains 5 fibronectin type-III domains.

**Developmental stage** Maximum levels in Th1 cells between day 3 and day 8 of activation.

**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.

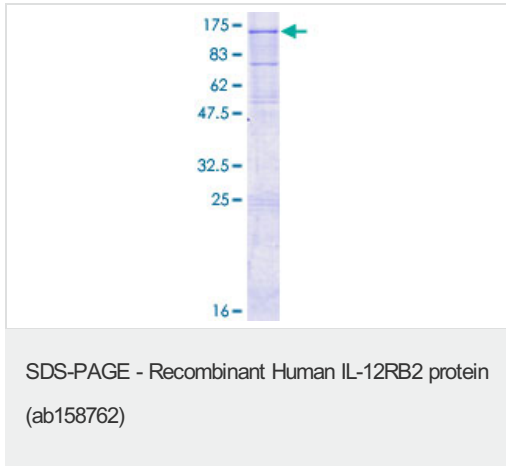
**Post-translational modifications** On IL12 binding, phosphorylated on C-terminal tyrosine residues by JAK2. Phosphorylation on Tyr-800 is required for STAT4 binding and activation, and for SOCS3 binding.

**Cellular localization** Membrane.

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## Images

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ab158762 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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