

Product datasheet

Recombinant human IL-1RA protein ab50081

1 Image

Description

Product name	Recombinant human IL-1RA protein
Biological activity	Determined by its ability to inhibit the IL-1alpha stimulation of murine D10S cell. The expected ED ₅₀ is 20-40 ng/ml in the presence of 50 pg/ml of IL-1alpha.
Purity	> 95 % SDS-PAGE. ab50081 purity was assessed also by HPLC. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MRPSGRKSSK MQAFRIWDVN QKTFYLRNNQ LVAGYLQGPN VNLEEKIDVV PIEPHALFLG IHGGKMCLSC VKSGDETRLQ LEAVNITDLS ENRKQDKRFA FIRSDSGPTT SFESAACPGW FLCTAMEADQ PVSLTNMPDE GVMVTKFYFQ EDE
Amino acids	24 to 177

Specifications

Our [Abpromise guarantee](#) covers the use of **ab50081** 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 Functional Studies Western blot
Form	Lyophilized

Additional notes

This protein is the 17.2 kDa secreted isoform of IL-1RA.

Preparation and Storage

Stability and Storage

Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.

Constituents: 0.0605% Tris, 0.145% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

Reconstitute to 1 mg/ml with distilled water.

General Info

Function

Inhibits the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling. Has no interleukin-1 like activity. Binds functional interleukin-1 receptor IL1R1 with greater affinity than decoy receptor IL1R2; however, the physiological relevance of the latter association is unsure.

Tissue specificity

The intracellular form of IL1RN is predominantly expressed in epithelial cells.

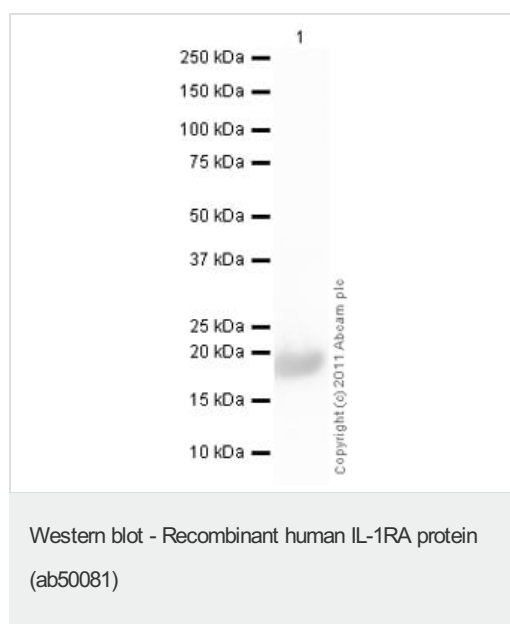
Involvement in disease

Microvascular complications of diabetes 4
Interleukin 1 receptor antagonist deficiency

Cellular localization

Cytoplasm and Secreted.

Images



Anti-IL-1RA antibody ([ab2573](#)) at 1 µg/ml + Recombinant human IL-1RA protein (ab50081) at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 20 seconds

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