

Product datasheet

Recombinant human IL-31 protein ab106619

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Description

Product name	Recombinant human IL-31 protein
Biological activity	Measured by its ability to induce STAT3 activation in Human U87 cells.
Purity	> 98 % SDS-PAGE. Greater than 98% by SDS-PAGE gel and HPLC analyses
Endotoxin level	< 0.100 Eu/μg
Expression system	Escherichia coli
Accession	<u>Q6EBC2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	SHTLPVRLLR PSDDVQKVE ELQSLSKMLL KDVEEEKGVL VSQNYTLPCL SPDAQPPNNI HSPAIRAYLK TIRQLDNKSV IDEIIEHLDK LIFQDAPETN ISVPTDTHC KRFILTISQQ FSECMDLALK SLTSGAQQAT T
Predicted molecular weight	16 kDa
Amino acids	24 to 164

Specifications

Our **Abpromise guarantee** covers the use of **ab106619** 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 HPLC ELISA Western blot
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

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

Reconstitution

The lyophilised product should be stored at -20°C till use. Once the product has been reconstituted according to the CoA, this can be diluted further in a chosen aqueous buffer containing a carrier protein, such as 0.1% BSA and stored in working aliquots at -20°C for at least 3 months

General Info

Function

Activates STAT3 and possibly STAT1 and STAT5 through the IL31 heterodimeric receptor composed of IL31RA and OSMR. IL31 may function in skin immunity.

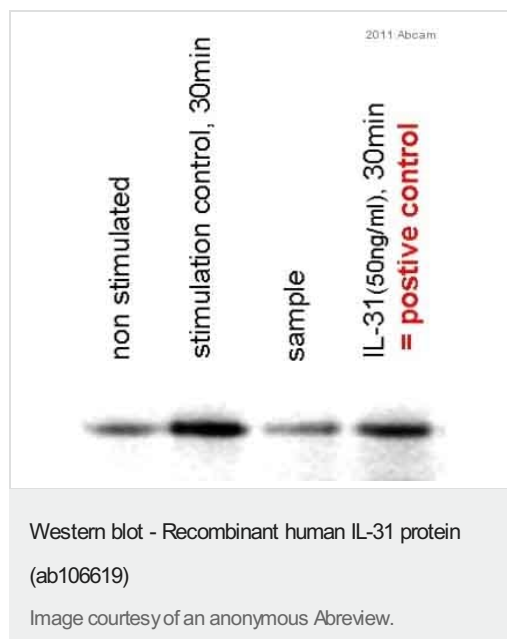
Tissue specificity

Detected at low levels in testis, bone marrow, skeletal muscle, kidney, colon, thymus, small intestine and trachea.

Cellular localization

Secreted.

Images



Whole cell lysate prepared from human eosinophil granulocytes was loaded at 500000 cells.

5-16% gel run under reducing, denaturing conditions.

Blocking step performed using 5% BSA for 2 hours at 25°C.

ab106619 used at a 1/200 dilution.

Primary antibody used at a 1/100 dilution.

Secondary antibody was an HRP conjugated goat anti-rabbit IgG, used at a 1/200 dilution.

The positive control was stimulated with IL-3 (10ng/ml) + IL-5 (10ng/ml) + GM-CSF (10ng/ml) for 30 minutes.

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

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
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- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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