

Datasheet: PHP303

BATCH NUMBER 100005644

Description:	RECOMBINANT HUMAN INTERLEUKIN-11
Name:	IL-11
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Centrifuge vial prior to reconstitution. Reconstitute to 100 µg/ml by adding 100 µl ddH ₂ O. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. Do not vortex.
Preparation	Recombinant protein expressed in <i>E. coli</i> and purified by ion exchange chromatography
Buffer Solution	50 mM Tris-HCl, pH8.0, 0.15 M NaCl
Preservative	1.0% Trehalose
Stabilisers	0.05% Tween80
Approx. Protein Concentrations	100 µg/ml after reconstitution

**External Database
Links**

UniProt:

[P20809](#) [Related reagents](#)

Entrez Gene:

[3589](#) IL11 [Related reagents](#)

Product Information Recombinant Human interleukin-11

Interleukin-11 (IL-11), also known as AGIF belongs to the IL-6 family of cytokines, and plays a protective role in acute inflammatory settings ([Traber *et al.* 2019](#)). IL-11 has both pro- and anti-inflammatory functions through activation of signaling cascades ([Lokau *et al.* 2017](#)). IL-11 is largely absent in the body fluids of healthy people, but is upregulated in a series of diseases. IL-11 can be expressed in fibroblasts, and its inhibition has been suggested as a treatment for fibrotic disease ([Schafer *et al.* 2017](#)), including fibrotic cardiovascular diseases ([Ye *et al.* 2019](#)). A role of IL-11 has also been identified in development of inflammation-associated cancers, and its inhibition may be a therapeutic goal ([Putoczki *et al.* 2013](#)).

This recombinant Human interleukin-11 can be used to create a standard curve in a sandwich ELISA with purified Mouse anti Human interleukin-11 antibody, clone D08-4C12 ([MCA6204GA](#)) as a capture antibody and biotinylated Mouse anti Human interleukin-11 antibody, clone C16-4B8 ([MCA6205B](#)) as the detection antibody.

**Protein Molecular
Weight**

19.1 kDa

Purity

≥90 % determined by coomassie blue staining of a reducing SDS-PAGE gel

Amino Acid Sequence

MAPGPPPGPP RVSPDPRAEL DSTVLLTRSL LADTRQLAAQ LRDKFPADGD
HNLDLPTLA MSAGALGALQ LPGVLTRLRA DLLSYLRHVQ WLRRAGGSSL
KTLEPELGT LQARLDRLRR LQLLMSRLAL PQPPDPAP PLAPPSSAWG
GIRAAHAILG GLHLTDWAV RGLLLLKTRL

Storage

Prior to reconstitution store at -70°C. Following reconstitution store at -80°C.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety
Information**

Material Safety Datasheet documentation #20474 available at:
<https://www.bio-rad-antibodies.com/SDS/PHP303>
20474

Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-11 \(MCA6204GA\)](#)

[MOUSE ANTI HUMAN INTERLEUKIN-11:Biotin \(MCA6205B\)](#)

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-11 \(MCA6204GA\)](#)

ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-11:Biotin \(MCA6205B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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