

Datasheet: PHP301

Description:	RECOMBINANT HUMAN INTERLEUKIN-32A
Name:	IL-32A
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
Source	E.coli
Buffer Solution	50 mM Tris-HCl, pH8.0, 0.15 M NaCl
Preservative Stabilisers	1.0% Trehalose
Approx. Protein Concentrations	100 µg/ml after reconstitution

**External Database
Links**

UniProt:

[P24001](#) [Related reagents](#)

Entrez Gene:

[9235](#) IL32 [Related reagents](#)

Synonyms

NK4, TAIF

Product Information

Recombinant Human interleukin-32A

Interleukin-32 alpha (IL-32A), also known as NK4 and TAIF is a pro-inflammatory cytokine with roles in inflammation and immune regulation, and its expression is strongly regulated by pathogens and pro-inflammatory cytokines ([Hong *et al.* 2017](#)). IL-32 A promotes inflammation by upregulating other inflammatory cytokines including TNF- α , IL-1 β , IL-6, INF- γ , and IL-8 ([Al-Shobaili *et al.* 2018](#)). Accordingly, a role for IL-32A has been reported in the pathogenesis of chronic inflammatory diseases including IBD, COPD and RA ([Damen *et al.* 2017](#)). IL-32A is highly expressed in several cancer tissues, and plays a crucial role in cancer development through tumor initiation, cell proliferation, and tumor maintenance ([Yan *et al.* 2018](#)).

This recombinant Human interleukin-32 alpha isoform can be used to create a standard curve in a sandwich ELISA with purified Mouse anti Human interleukin-32 antibody, clone E03-4C9 ([MCA6212GA](#)) as a capture antibody and biotinylated Mouse anti Human interleukin-32 antibody, clone B01-2A7 ([MCA6213B](#)) as the detection antibody.

**Protein Molecular
Weight**

14.9 kDa

Purity

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

Amino Acid Sequence

CFPKVLSDDM KKLKARMHQA IERFYDKMQN AESGRGQVMS SLAELEDDFK
EGYLETVAAY YEEQHPELTP LLEKERDGLR CRGNRSPVPD VEDPATEEPG
ESFCDKSYGA PRGDKEELTP QKCSEPQSSK

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 #20394 available at:
<https://www.bio-rad-antibodies.com/SDS/PHP301>
20394

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-32 \(MCA6212GA\)](#)

[MOUSE ANTI HUMAN INTERLEUKIN-32:Biotin \(MCA6213B\)](#)

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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

'M420139:230706'

Printed on 19 Jan 2024

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