

## Datasheet: PHP300

<b>Description:</b>	RECOMBINANT HUMAN INTERLEUKIN-25
<b>Name:</b>	IL-25
<b>Other names:</b>	Interleukin-17E
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Centrifuge vial prior to reconstitution. Reconstitute to 100 µg/ml by adding 100 µl ddH <sub>2</sub> 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.
<b>Preparation</b>	Recombinant protein expressed in HEK293 cells and purified by ion exchange chromatography
<b>Source</b>	HEK-293
<b>Buffer Solution</b>	50 mM Tris-HCl, pH 8.0, 0.15 M NaCl
<b>Preservative Stabilisers</b>	1.0% Trehalose
<b>Approx. Protein</b>	100 µg/ml after reconstitution

## Concentrations

### External Database

#### Links

#### UniProt:

[Q9H293](#)

[Related reagents](#)

#### Entrez Gene:

[64806](#)

IL25

[Related reagents](#)

#### Synonyms

IL17E

### Product Information

#### Recombinant Human interleukin-25

Interleukin-25 (IL-25) also known as IL17E is a member of the IL-17 family of cytokines and is expressed by various immune cells including mast cells, eosinophils, basophils and T helper type 2 cells. It is also expressed in non-hematopoietic cells such as epithelial and endothelial cells ([Yao \*et al.\* 2016](#)). As a pleiotropic cytokine, it stimulates stromal, innate immune and adaptive immune cells to regulate Th2 type inflammation ([Monin & Gaffen 2018](#)). IL-25 exerts its biological function through its receptor IL-17RB, although there is some evidence that it may also bind to the receptor IL-17RA ([Yao \*et al.\* 2016](#)). Through this interaction, IL-25 is able to induce expression of IL-4, IL-5, IL-13 and TSLP ([McGeachy \*et al.\* 2019](#)).

IL-25 is upregulated in asthmatic conditions and can induce typical eosinophil inflammation and airway hyperresponsiveness ([Yao \*et al.\* 2016](#)). IL-25 levels are also associated with the severity of chronic allergic reactions ([Monin & Gaffen 2018](#)).

This recombinant Human interleukin-25 can be used to create a standard curve in a sandwich ELISA with purified Mouse anti Human interleukin-25 antibody, clone A09 -3D10 ([MCA6248GA](#)) as a capture antibody and biotinylated Mouse anti Human interleukin-25 antibody, clone A14 -3D2 ([MCA6249B](#)) as the detection antibody.

#### Protein Molecular Weight

16.7 kDa

#### Purity

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

#### Amino Acid Sequence

YSHWPSCCPK KGQDTSEELL RWSTVPVPPL EPARPNRHPE SCRASEDGPL  
NSRAISPWRY ELDRDLNRLP QDLYHARCLC PHCVSLQTGS HMDPRGNSEL  
LYHNQTVFYR RPCHGEKGTH KGYCLERRLY RVSLACVCVR PRVMG

#### 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.

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**Health And Safety Information**                      Material Safety Datasheet documentation #20394 available at:  
<https://www.bio-rad-antibodies.com/SDS/PHP300>  
20394

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**Regulatory**                      For research purposes only

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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](https://www.bio-rad-antibodies.com/datasheets)  
'M415679:230113'

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