

## Datasheet: PHP300

**BATCH NUMBER 100005641**

<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>Buffer Solution</b>	50 mM Tris-HCl, pH 8.0, 0.15 M NaCl
<b>Preservative Stabilisers</b>	1.0% Trehalose
<b>Approx. Protein Concentrations</b>	100 µg/ml after reconstitution

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9H293</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">64806</a> IL25 <a href="#">Related reagents</a>
<b>Synonyms</b>	IL17E
<b>Product Information</b>	<b>Recombinant Human interleukin-25</b>  <p>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 (<a href="#">Yao et al. 2016</a>). As a pleiotropic cytokine, it stimulates stromal, innate immune and adaptive immune cells to regulate Th2 type inflammation (<a href="#">Monin &amp; Gaffen 2018</a>). 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 (<a href="#">Yao et al. 2016</a>). Through this interaction, IL-25 is able to induce expression of IL-4, IL-5, IL-13 and TSLP (<a href="#">McGeachy et al. 2019</a>).</p> <p>IL-25 is upregulated in asthmatic conditions and can induce typical eosinophil inflammation and airway hyperresponsiveness (<a href="#">Yao et al. 2016</a>). IL-25 levels are also associated with the severity of chronic allergic reactions (<a href="#">Monin &amp; Gaffen 2018</a>).</p> <p>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 (<a href="#">MCA6248GA</a>) as a capture antibody and biotinylated Mouse anti Human interleukin-25 antibody, clone A14 -3D2 (<a href="#">MCA6249B</a>) as the detection antibody.</p>
<b>Protein Molecular Weight</b>	16.7 kDa
<b>Purity</b>	≥90 % determined by coomassie blue staining of a reducing SDS-PAGE gel
<b>Amino Acid Sequence</b>	YSHWPSCCPS KGQDTSEELL RWSTVPVPPL EPARPNRHPE SCRASEDGPL NSRAISPWRY ELDRDLNRLP QDLYHARCLC PHCVSLQTGS HMDPRGNSEL LYHNQTVFYR RPCHGEKGTH KGYCLERRLY RVSLACVCVR PRVMG
<b>Storage</b>	<p>Prior to reconstitution store at -70°C. Following reconstitution store at -80°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
<b>Guarantee</b>	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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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-25 \(MCA6248GA\)](#)

[MOUSE ANTI HUMAN INTERLEUKIN-25:Biotin \(MCA6249B\)](#)

### ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-25 \(MCA6248GA\)](#)

### ELISA Matched Pair - Detection Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-25:Biotin \(MCA6249B\)](#)

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'M380424:210511'

**Printed on 18 Jan 2024**

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