

Datasheet: PHP300

BATCH NUMBER 100005641

Description:	RECOMBINANT HUMAN INTERLEUKIN-25
Name:	IL-25
Other names:	Interleukin-17E
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 HEK293 cells and purified by ion exchange chromatography
Buffer Solution	50 mM Tris-HCl, pH 8.0, 0.15 M NaCl
Preservative Stabilisers	1.0% Trehalose
Approx. Protein Concentrations	100 µg/ml after reconstitution

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	YSHWPSCCPS 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.

Health And Safety Information Material Safety Datasheet documentation #20394 available at:
20394: <https://www.bio-rad-antibodies.com/uploads/MSDS/20394.pdf>

Regulatory For research purposes only

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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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)

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