

Datasheet: PHP300

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
Source	HEK-293
Buffer Solution	50 mM Tris-HCl, pH 8.0, 0.15 M NaCl
Preservative Stabilisers	1.0% Trehalose
Approx. Protein	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

YSHWPSCCPs KGQDTSEELL RWSTVPVPPL EPARPNRHPE SCRASEDGPL
NSRAISPWRY ELDRDLNRLP QDLYHARCLC PHCVSLQTGS HMDPRGNSEL
LYHNQTVFYR RPCHGEGKGT H 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.

