

Datasheet: PHP045

Description:	RECOMBINANT HUMAN INTERLEUKIN-6
Name:	IL-6
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	20 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	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.1 - 10ng/ml

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 - lyophilised
Reconstitution	Reconstitute with 0.2ml distilled water. 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. For long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide
Preparation	Recombinant protein expressed in <i>E. coli</i> .
Preservative Stabilisers	None present.
Endotoxin Level	<0.1 ng/ug
Approx. Protein Concentrations	0.1 mg/ml after reconstitution
External Database Links	UniProt: P05231 Related reagents Entrez Gene:

Synonyms	IFNB2
Product Information	Recombinant Human Interleukin-6 protein produced in <i>E. coli</i> constitutes full length non-glycosylated human IL-6 and retain full biological activity. Interleukin-6 is a potent lymphoid cell growth factor, acting on B cells, T cells and hybridoma cells. This preparation has an ED50 of 0.1ng/ml when assayed by proliferation of murine 7TD1 cells.
Protein Molecular Weight	20.9 kDa (184 amino acids)
Activity	>1 x 10 ⁷ units/mg
Purity	>98% by SDS PAGE analysis and HPLC analysis
ELISA	Recombinant Human IL-6 (PHP045) may be used as a standard for ELISA applications with biotinylated Rabbit anti Human Interleukin-6 (AHP1040B) for detection.
Western Blotting	Recombinant Human IL-6 may be used as the positive control for western blotting applications with Rabbit anti Human Interleukin-6 (AHP1040) for detection.
References	1. Ban, S.A. <i>et al.</i> (2014) Combined immunodeficiency evolving into predominant CD4+ lymphopenia caused by somatic chimerism in JAK3. J Clin Immunol. 34 (8): 941-53.
Storage	Prior to reconstitution store at -20°C. Following reconstitution store at -20°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.
Shelf Life	3 months from date of reconstitution. Please see label for expiry date.
Health And Safety Information	Material Safety Datasheet documentation #10345 available at: 10345: https://www.bio-rad-antibodies.com/uploads/MSDS/10345.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[RABBIT ANTI HUMAN INTERLEUKIN-6 \(AHP1040\)](#)

[RABBIT ANTI HUMAN INTERLEUKIN-6:Biotin \(AHP1040B\)](#)

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