Datasheet: PHP042A

BATCH NUMBER 174360

Description:	RECOMBINANT HUMAN INTERLEUKIN-2
Name:	IL-2
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	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.1 - 2.0ng/ml

Where this protein 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 positive/negative controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Cynomolgus monkey, Rhesus Monkey, Dolphin
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified protein produced in *E. coli* - lyophilized

Reconstitution

Reconstitute with 0.1ml 0.1M acetic acid
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.

Source

E.coli

Buffer Solution

10mM Sodium citrate.

Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 0.1 ng/ug
Approx. Protein Concentrations	Total protein concentration 0.1mg/ml after reconstitution.
External Database Links	**UniProt:** P60568 Related reagents **Entrez Gene:** 3558 IL2 Related reagents
Product Information	**Recombinant human interleukin 2** is an *Escherichia coli*-derived recombinant protein corresponding to full-length mature human interleukin-2, a secreted peptide required for T-cell proliferation. This preparation has an ED50 of 0.1ng/ml as determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells.
Protein Molecular Weight	15.5kDa (134 Amino acid sequence)
Activity	>1 x 10^7 units/mg as determined by dose-dependent stimulation of CTLL-2 cells.
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	This product may be used as a standard in ELISA applications with either AHP1032 or AHP1032B.
Western Blotting	This product may be used as a positive control in western blotting applications with either AHP1032 or AHP1032B.
References	1. Akari, H. *et al*. (2000) Nef-induced major histocompatibility complex class I down-regulation is functionally dissociated from its virion incorporation, enhancement of viral infectivity, and CD4 down-regulation. J. Virol. 74 (6): 2907 - 2912. 2. Vaughan, K. *et al.* (2007) A DNA vaccine against dolphin morbillivirus is immunogenic in bottlenose dolphins. Vet Immunol Immunopathol. 120: 260-6. 3. Chan, P.K. *et al.* (2010) T-cell response to human papillomavirus type 58 L1, E6 and E7 peptides in women with cleared infection, cervical intraepithelial neoplasia and invasive cancer. Clin Vaccine Immunol. 17: 1315-21. 4. Doi, N. *et al.* (2010) Growth ability in various macaque cell lines of HIV-1 with simian cell-tropism. J Med Invest. 57: 284-92. 5. Ban, S.A. *et al.* (2014) Combined immunodeficiency evolving into predominant CD4+ lymphopenia caused by somatic chimerism in JAK3. J Clin Immunol. 34 (8): 941-53. 6. Geoghegan, V. *et al.* (2015) Comprehensive identification of arginine methylation in primary T cells reveals regulatory roles in cell signalling. Nat Commun. 6: 6758.

7. Yutani, S. *et al.* (2017) Feasibility study of personalized peptide vaccination for hepatocellular carcinoma patients refractory to locoregional therapies. Cancer Sci. 108 (9): 1732-8.
8. Hirakawa, Y. *et al.* (2019) Immunological consequences following splenectomy in patients with liver cirrhosis. Exp Ther Med. 18 (1): 848-856.

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.
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 #10527 available at: https://www.bio-rad-antibodies.com/SDS/PHP042A
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

RABBIT ANTI HUMAN INTERLEUKIN-2 (AHP1032)
RABBIT ANTI HUMAN INTERLEUKIN-2:Biotin (AHP1032B)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M433682:241118'

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