

Datasheet: PDP014

**BATCH NUMBER 142840**

<b>Description:</b>	RECOMBINANT DOG INTERLEUKIN-1 BETA
<b>Name:</b>	IL-1 BETA
<b>Other names:</b>	IL-1F2
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	5 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	▪			
Western Blotting	▪			

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>	Dog
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 20 µl sterile PBS containing 0.1% carrier protein 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.
<b>Preparation</b>	Recombinant protein expressed in <i>Pichia pastoris</i> and purified by ion-exchange chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	10% Trehalose
<b>External Database Links</b>	<b>UniProt:</b>

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**Product Information**   **Recombinant Dog interleukin-1 beta (IL-1 $\beta$ )** is a recombinant protein corresponding to a 152 amino acid sequence of native canine IL-1 $\beta$ .

Interleukin-1 $\beta$  is a pleiotropic pro-inflammatory cytokine and member of the IL-1 superfamily. It is secreted by activated macrophages and monocytes and is involved in the modulation of a range of immune and inflammatory responses.

IL-1 $\beta$  and the closely related IL-1 $\alpha$ , are both involved in haematopoiesis and exhibit many identical immunomodulatory properties, binding to the same type I interleukin-1 receptor, also known as CD121a.

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**Protein Molecular Weight**   17.5 kDa

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**Purity**   >95% by SDS PAGE analysis

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**ELISA**   This reagent may be used as a standard in a sandwich ELISA assay in conjunction with [AHP2980](#) as a coating antibody and [AHP2980B](#) as a detection antibody.

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**Storage**   Prior to reconstitution store at -20°C.  
After reconstitution store at -20°C.  
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.

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**Guarantee**   12 months from date of despatch

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**Health And Safety Information**   Material Safety Datasheet documentation #10591 available at: <https://www.bio-rad-antibodies.com/SDS/PDP01410591>

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**Regulatory**   For research purposes only

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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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