

Datasheet: PBP006

BATCH NUMBER 151755

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|----------------------|----------------------------------|
| Description: | RECOMBINANT BOVINE INTERLEUKIN-4 |
| Name: | IL-4 |
| 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 | ▪ | | | |
| Functional Assays | ▪ | | | |

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 | Bovine |
| Product Form | Purified recombinant protein - lyophilized |
| Reconstitution | <p>Reconstitute with 0.5 ml 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.</p> <p>Further dilutions should be made in a buffer containing carrier protein.</p> |
| Preparation | Recombinant protein expressed in <i>Pichia pastoris</i> |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |
| Approx. Protein Concentrations | Total protein concentration 0.04 mg/ml after reconstitution |

**External Database
Links**

UniProt:

[P30367](#) [Related reagents](#)

Entrez Gene:

[280824](#) IL4 [Related reagents](#)

Product Information Interleukin-4 (IL-4) is produced by a range of bovine cells, including T and B lymphocytes, monocytes and macrophages, and plays an important role in the immune response.

Protein Molecular Weight 12.6 kDa

Purity >95% by SDS PAGE analysis

ELISA PBP006 has been used as a standard in a sandwich ELISA assay with [MCA2371](#) as the capture antibody and [MCA2372B](#) for detection.

References

1. Pirson, C. *et al.* (2012) Differential effects of Mycobacterium bovis - derived polar and apolar lipid fractions on bovine innate immune cells. [Vet Res. 43: 54.](#)
2. Rodrigues, V. *et al.* (2017) Development of a bead-based multiplexed assay for simultaneous quantification of five bovine cytokines by flow cytometry. [Cytometry A. 91 \(9\): 901-7.](#)
3. Stabel, J.R. *et al.* (2021) Comparative cellular immune responses in calves after infection with *Mycobacterium avium*. subsp. *paratuberculosis*., *M. avium*. subsp. *avium*., *M. kansasii*. and *M. bovis*.. [Vet Immunol Immunopathol. 237: 110268.](#)

Storage

Prior to reconstitution store at +4°C.
Following reconstitution store at -70°C.
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 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10209 available at: <https://www.bio-rad-antibodies.com/SDS/PBP006>
10209

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI BOVINE INTERLEUKIN-4 \(MCA2371\)](#)

[MOUSE ANTI BOVINE INTERLEUKIN-4:Biotin \(MCA2372B\)](#)

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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

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