

Product datasheet

Anti-IL-1 alpha antibody (Biotin) ab84012

Overview

Product name	Anti-IL-1 alpha antibody (Biotin)
Description	Goat polyclonal to IL-1 alpha (Biotin)
Host species	Goat
Conjugation	Biotin
Tested applications	Suitable for: Sandwich ELISA, WB
Species reactivity	Reacts with: Rat
Immunogen	Recombinant full length protein corresponding to Rat IL-1 alpha.
General notes	<p>ab84012 is sterile filtered.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>

Properties

Form	Lyophilized:Centrifuge vial prior to opening. Reconstitute in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
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Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab84012** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use a concentration of 0.25 - 1 µg/ml. Allows the detection of at least 0.2 - 0.4 ng/well of recombinant rat IL-1 alpha.
WB		Use a concentration of 0.1 - 0.2 µg/ml. Predicted molecular weight: 31 kDa. The detection limit for recombinant rat IL-1 alpha is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Target

Function	Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Sequence similarities	Belongs to the IL-1 family.
Domain	The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.
Cellular localization	Secreted. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
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- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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