

**Datasheet for 209-401-302S****IL-1 Alpha Antibody****Overview**

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| <b>Description:</b>  | Anti-Human IL-1 alpha (RABBIT) Antibody - 209-401-302S |
| <b>Item No.:</b>     | 209-401-302S                                           |
| <b>Size:</b>         | 25 µL                                                  |
| <b>Applications:</b> | WB                                                     |
| <b>Reactivity:</b>   | Human                                                  |
| <b>Host Species:</b> | Rabbit                                                 |

**Product Details**

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| <b>Background:</b>   | Interleukin 1 alpha is produced by activated macrophages. Anti-IL-1 alpha antibody is ideal for investigators involved in Immunology research.     |
| <b>Synonyms:</b>     | Interleukin 1 alpha precursor antibody, rabbit anti-Interleukin1 alpha antibody, rabbit anti-IL-1 Alpha Antibody, Pre-interleukin 1 alpha antibody |
| <b>Host Species:</b> | Rabbit                                                                                                                                             |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                         |
| <b>Format:</b>       | IgG                                                                                                                                                |

**Target Details**

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| <b>Gene Name:</b>      | IL1A                                                                                                                                                                                                                                                                                      |
| <b>Reactivity:</b>     | Human                                                                                                                                                                                                                                                                                     |
| <b>Immunogen Type:</b> | Recombinant Protein                                                                                                                                                                                                                                                                       |
| <b>Immunogen:</b>      | The whole rabbit serum used to produce this IgG fraction antibody was prepared by repeated immunizations with recombinant human IL-1a produced in E.coli. The MW of the recombinant IL-1a was 17,000. This is the cleavage site generated by the IL-1b converting enzyme (ICE, capase-1). |

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| <b>Purity/Specificity:</b> | <p>This is an IgG preparation of whole rabbit serum purified by DEAE fractionation. This antibody is primarily directed against the 17,000 MW human IL-1a and is useful in determining its presence in various assays. In general, this antibody also detects primate IL-1a in the same formats using similar dilutions. The antiserum does not recognize human IL-1b or Mouse or Rabbit IL-1a. In ELISA formats and other immunoreactive assays, this antibody will recognize both the mature 17,000 MW IL-1a as well as the 31,000 MW IL-1a precursor in either non-denatured (native) or denatured samples. Unlike the IL-1b precursor, the native precursor of IL-1a is recognized by the antibody produced to the 17,000 MW form. The 31,000 precursor of IL-1a is biologically active and is found primarily intracellularly. The precursor of IL-1a, unlike that of IL-1b, is biologically active when applied to cells and is thought to have a role as a functional molecule intracellularly and can be found constitutively expressed in various cell. This antibody is also useful for neutralization of human and primate IL-1a activity in bioassays. It does not neutralize the biological activity IL-1b. It does not neutralize the biological activity of mouse, rat or rabbit IL-1a. It will neutralize primate IL-a. For neutralization, it is recommended to incubate the sample with a 1:100 dilution of the antibody for at least 4 hours before being tested. A control of similarly diluted normal rabbit IgG is recommended. This antibody can be used for FACS analysis. Caution should be exhibited as the F (c) domain of the rabbit IgG molecule may interact with cells non-specifically.</p> |
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| <b>Relevant Links:</b> | <ul style="list-style-type: none"> <li><a href="#">NCBI - P01583.1</a></li> <li><a href="#">UniProtKB - P01583</a></li> <li><a href="#">GeneID - 3552</a></li> </ul> |
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## Application Details

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| <b>Tested Applications:</b> | WB                                                                                                                                                                                                                                                                                      |
| <b>Application Note:</b>    | This IgG fraction antibody of anti-Human IL-1a has been tested for use in immunoblotting. This antibody is suitable for use in ELISA, neutralizations, immunohistochemistry, and flow cytometry. It recognizes the 17,000 MW mature IL-1a. Reactivity in other immunoassays is unknown. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                         |
| <b>ELISA:</b>               | 1:1,000 - 1:5,000                                                                                                                                                                                                                                                                       |
| <b>IHC:</b>                 | 1:100 to 1:200                                                                                                                                                                                                                                                                          |
| <b>WB:</b>                  | 1:500 - 1:2,000                                                                                                                                                                                                                                                                         |

## Formulation

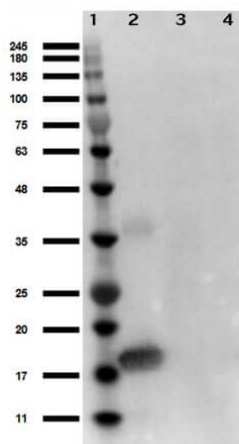
|                        |                                    |
|------------------------|------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)          |
| <b>Concentration:</b>  | 1 mg/ml by UV absorbance at 280 nm |

|                      |                                                            |
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| <b>Buffer:</b>       | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b> | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>   | None                                                       |

## Shipping & Handling

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| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage Condition:</b>  | Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Images



### Western Blot

Western Blot of Rabbit Anti-Human IL-1 alpha Antibody.  
 Lane 1: Opal Prestained Molecular Weight Ladder (p/n MB-210-0500). Lane 2: IL-1 alpha [50ng]. Lane 3: MEF WC lysate [10ng] (p/n W10-001-371). Lane 4: MEF LPS stimulated [10ng]. Blocking: BlockOut Buffer (p/n MB-073) for 30min at RT. Primary Antibody: Anti-IL-1a at 1µg/mL overnight at 4°C. Secondary Antibody: Goat anti-Rabbit HRP (p/n 611-103-122) at 1:70,000 for 30min at RT.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

