

Anti-Human IL-1 alpha (RABBIT) Antibody - 209-401-302

Code: 209-401-302

Size: 1 mg

Product Description: Anti-Human IL-1 alpha (RABBIT) Antibody - 209-401-302

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	IL1A
Species Reactivity	human
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	Interleukin 1 alpha precursor antibody, rabbit anti-Interleukin1 alpha antibody, rabbit anti-IL-1 Alpha Antibody, Pre-interleukin 1 alpha antibody
Application Note	This IgG fraction antibody of anti-Human IL-1a has been tested for use in neutralizations, ELISA, immunohistochemistry, flow cytometry and immunoblotting. It recognizes the 17,000 MW mature IL-1a. Reactivity in other immunoassays is unknown.
Background	Interleukin 1 alpha is produced by activated macrophages. Anti-IL-1 alpha antibody is ideal for investigators involved in Immunology research.
Purity And Specificity	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.
Assay Dilutions	User Optimized
ELISA	1:1,000 - 1:5,000
Western Blot	1:500 - 1:2,000
Immunohistochemistry	1:100 to 1:200
Neutralization	User Optimized
Flow Cytometry	User Optimized
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	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).

General Reference

- Cerretti, D.P., et al. (1992) Molecular cloning of the IL-1alpha processing enzyme. *Science* 256: 97-100.
- Thornberry, N.A., et al. (1992) A novel heterodimeric cysteine protease is required for interleukin-1alpha processing in monocytes. *Nature* 356 (6372) 768-74.
- Lonnemann, G., et al. (1995) Cytokines in human renal interstitial fibrosis. II. Intrinsic Interleukin (IL)-1 synthesis and IL-1-dependent production of IL-6 and IL-8 by cultured kidney fibroblasts. *Kidney Int* 47: 845-854.
- Lonnemann, G., et al. (1995) Cytokines in human renal interstitial fibrosis. I Interleukin-1 is a paracrine growth factor for cultured fibrosis-derived kidney fibroblasts. *Kidney Int* 47: 837-844.
- Stevenson, F.T., et al. (1997) The N-terminal propeptide of interleukin 1alpha is a transforming nuclear oncoprotein. *Proc Natl Acad Sci USA* 94: 508-513.

Related Products

109-401-301	Anti-Human IL-1 beta (RABBIT) Antibody - 109-401-301
109-401-312	Anti-IL-10 (RABBIT) Antibody - 109-401-312
600-401-955	Anti-MyD88 (RABBIT) Antibody - 600-401-955
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

Related Links

NCBI - P01583.1

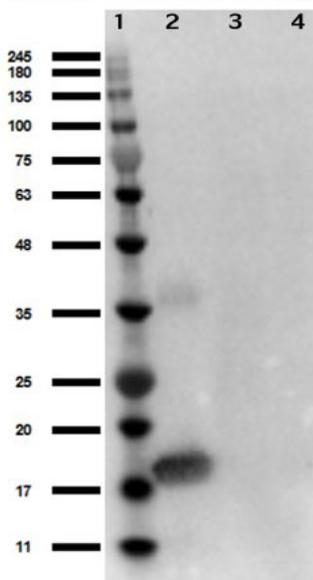
<http://www.ncbi.nlm.nih.gov/protein/P01583.1>

UniProtKB - <http://www.uniprot.org/uniprot/P01583>

GeneID - 3552

Images

- 1 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. Lane 4: MEF LPS stimulated 10ng. Blocking: BlockOut Buffer (p/n MB-073) for 30min at RT. Primary Antibody: Anti-IL-1a 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.