

Product Datasheet

IL-1 Alpha Antibody (orb420287)

Catalog Number	orb420287
Description	IL1 alpha antibody
Species/Host	Rabbit
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	ELISA, IHC, WB
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).
Preservatives	0.01% (w/v) Sodium Azide
Form/Appearance	Liquid (sterile filtered)
Concentration	1 mg/ml
Storage	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.
Note	For research use only
Application notes	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.
Isotype	IgG

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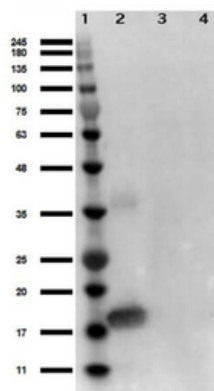
Clonality	Polyclonal
Antibody Type	Primary Antibody
Purity	<p>This is an IgG preparation of whole rabbit serum purified by DEAE fractionation. This antibody is primarily directed against the 17,000 MW human IL-1a and is useful in determining its presence in various assays. In general, this antibody also 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>
Uniprot ID	P01583
NCBI	P01583.1
Dilution Range	ELISA: 1:1,000 - 1:5,000, IHC: 1:100 to 1:200, WB: 1:500 - 1:2,000
Expiration Date	12 months from date of receipt.

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Western Blot of Rabbit Anti-Human IL-1 alpha Antibody. Lane 1: Opal Prestained Molecular Weight Ladder. Lane 2: IL-1 alpha [50 ng]. Lane 3: MEF WC lysate [10 ng] (p/n orb348722). Lane 4: MEF LPS stimulated [10 ng]. Blocking: BlockOut Buffer (p/n orb348644) for 30 min at RT. Primary Antibody: Anti-IL-1a at 1 µg/ml overnight at 4°C. Secondary Antibody: Goat anti-Rabbit HRP (p/n orb347654) at 1:70000 for 30 min at RT.

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