

Rev04  
Update: Oct,19,2022

**DATASHEET**

# IL-1 beta Antibody (7C10B9), mAb, Mouse

Cat. No.: A01487

## Overview

<b>Specificity</b>	No cross-reactivity with IL-1 $\alpha$ , IL-4, IL-6, IL-8, IL-18 are detected.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human IL-1 $\beta$ full length recombinant protein
<b>Conjugate</b>	Unconjugated

## Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.05-0.2 $\mu$ g/ml

## Properties

<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
<b>Reconstitution</b>	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
<b>Storage Instructions</b>	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Clonality</b>	Monoclonal

**GenScript USA, Inc.**

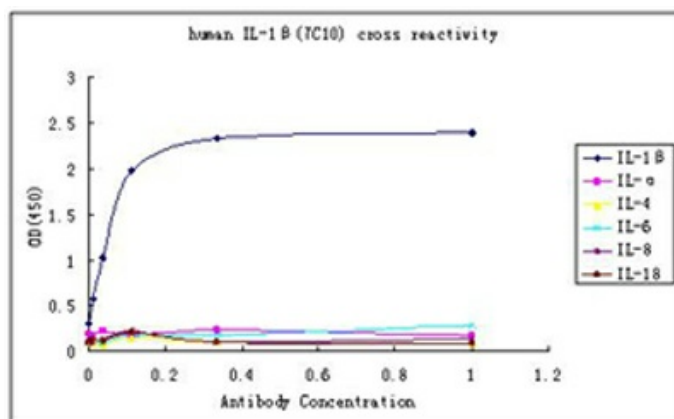
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Clone ID

7C10B9

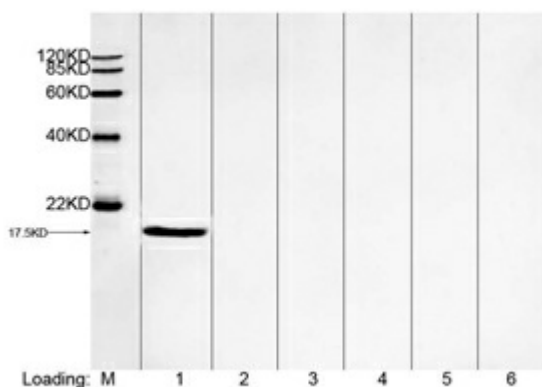
## Examples



Cross-reactivity of IL-1 beta Antibody (7C10B9), mAb, Mouse (GenScript, A01487) by Indirect ELISA:

### General conditions:

1. Microplate was coated with IL-1 beta, IL-1 $\alpha$ , IL-4, IL-6, IL-8, IL-18 respectively, followed by 3 washing cycles.
2. Incubation with IL-1 beta Antibody (7C10B9), mAb, Mouse followed by 3 washing cycles.
3. Incubation with goat anti-mouse IgG conjugated to peroxidase, followed by 3 washing cycles.
4. Colorimetric determination of bound peroxidase activity.



Primary antibody

Western blot analysis of IL-1 beta Antibody (7C10B9), mAb, Mouse (GenScript, A01487, 1  $\mu$ g/ml).

Secondary antibody:

IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG (ROCKLAND, 1:10,000, 610-132-121)

Loading:

- Lane 1: IL-1  $\beta$  protein (400 ng)
- Lane 2: IL-1  $\alpha$  protein (400 ng)
- Lane 3: IL-4 protein (400 ng)
- Lane 4: IL-6 protein (400 ng)
- Lane 5: IL-8 protein (400 ng)
- Lane 6: IL-18 protein (400 ng)

## Background

**Target Background :** Interleukin 1 (IL1), originally known as lymphocyte activating factor (LAF), activates T cells and lymphocytes, which then proliferate and secrete interleukin 2. IL1 is primarily released from stimulated macrophages and monocytes, but also is released from several other cell types, and is thought to play a key role in inflammatory and immune responses. The two closely related agents, interleukin1 alpha (IL1 alpha) and interleukin1 beta (IL1 beta) bind to the same cell surface receptor, elicit nearly identical biological responses and share 25% homology in their amino acid sequence.

**Synonyms :** LAF antibody; H1 antibody

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**