

For Research Use Only

# IL-1 beta Monoclonal antibody

Catalog Number: 60136-1-Ig **14 Publications**



## Basic Information

<b>Catalog Number:</b> 60136-1-Ig	<b>GenBank Accession Number:</b> BC008678	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3553	<b>CloneNo.:</b> 1C6F12
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000125538	
<b>Isotype:</b> IgG1	<b>UNIPROT ID:</b> P01584	
<b>Immunogen Catalog Number:</b> AG10295	<b>Full Name:</b> interleukin 1, beta	
	<b>Calculated MW:</b> 269 aa, 31 kDa	

## Applications

**Tested Applications:**  
ELISA

**Cited Applications:**  
WB, ELISA

**Species Specificity:**  
human, mouse

**Cited Species:**  
human, mouse, rat

## Background Information

Interleukin-1 is a pro-inflammatory cytokine with multiple biological effects. The IL-1 gene family encodes three proteins: IL-1 $\alpha$ , IL-1 $\beta$  and their naturally occurring inhibitor IL-1RN. IL-1 Beta(IL-1 $\beta$ ), mainly produced by blood monocytes and tissue macrophages, has been implicated in mediating both acute and chronic inflammation. IL-1 $\beta$  is known to be involved in a variety of cellular activities, including cell proliferation, differentiation and apoptosis. IL-1 $\beta$  is emerging as a key mediator of carcinogenesis that characterizes host-environment interactions. Human IL-1 $\beta$  is synthesized as a 31 kDa precursor. To gain activity, the precursor must be cleaved by caspase-1 between Asp116 and Ala117 to yield a 17 kDa mature form.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaqiong Wang	25326752	Nat Immunol	WB
Yue Pang	29037260	Cell Commun Signal	WB
Yi Huang	32367047	Nat Cell Biol	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

