

For Research Use Only

IL-1 beta Recombinant antibody

Catalog Number: 82696-15-RR



Basic Information

Catalog Number: 82696-15-RR	GenBank Accession Number: BC008678	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 3553	CloneNo.: 240902D6
Source: Rabbit	ENSEMBL Gene ID: ENSG00000125538	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:200-1:800
Isotype: IgG	UNIPROT ID: P01584	
	Full Name: interleukin 1, beta	
	Calculated MW: 269 aa, 31 kDa	
	Observed MW: 30-35 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : LPS and Brefeldin A treated THP-1 cells, A431 cells, HT-1080 cells, U-87 MG cells
	IF/ICC : LPS and Brefeldin A treated THP-1 cells,

Background Information

Interleukin-1 is a pro-inflammatory cytokine with multiple biological effects. The IL-1 gene family encodes three proteins: IL-1 α , IL-1 β and their naturally occurring inhibitor IL-1RN. IL-1 Beta (IL-1 β), mainly produced by blood monocytes and tissue macrophages, has been implicated in mediating both acute and chronic inflammation. IL-1 β is known to be involved in a variety of cellular activities, including cell proliferation, differentiation and apoptosis. IL-1 β is emerging as a key mediator of carcinogenesis that characterizes host-environment interactions. Human IL-1 β 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.

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

For technical support and original validation data for this product please contact:

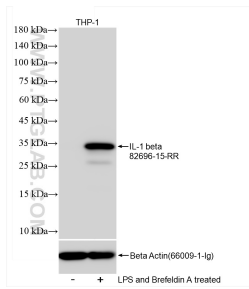
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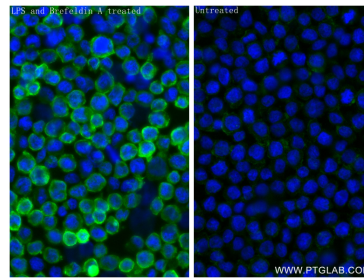
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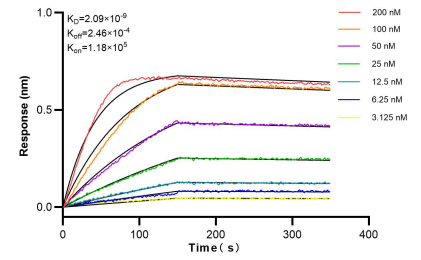
Selected Validation Data



LPS and Brefeldin A treated THP-1 cells were subjected to SDS PAGE followed by western blot with 82696-15-RR (IL-1 beta antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed LPS and Brefeldin A treated THP-1 cells using IL-1 beta antibody (82696-15-RR, Clone: 240902D6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Bi-layer interferometry (BLI) kinetic assays of 82696-15-RR against Human IL-1 beta were performed. The affinity constant is 2.09 nM.