

For Research Use Only

IL-1 Beta Recombinant antibody, PBS Only (Capture)

Catalog Number:82696-6-PBS



Basic Information

Catalog Number: 82696-6-PBS	GenBank Accession Number: BC008678	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3553	CloneNo.: 319
Source: Rabbit	ENSEMBL Gene ID: ENSG00000125538	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

82696-6-PBS targets IL-1 Beta as part of a matched antibody pair:

MP80001-1: 82696-6-PBS capture and 65276-1-PBS detection (validated in Cytometric bead array)

MP80001-2: 82696-6-PBS capture and 68767-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 -80°C.

Storage Buffer:
PBS Only

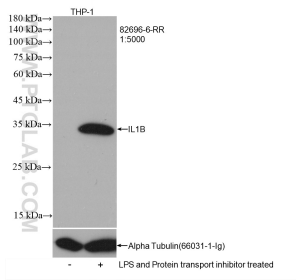
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

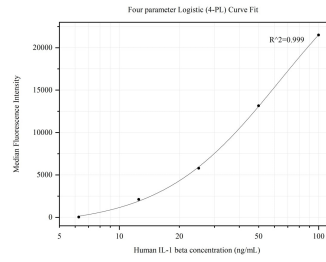
E: proteintech@ptglab.com
W: ptglab.com

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

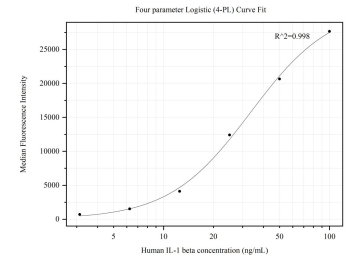
Selected Validation Data



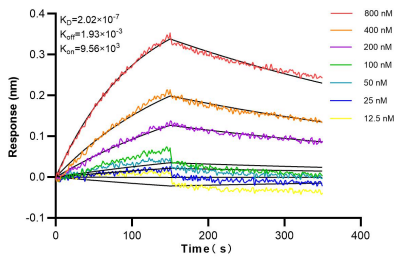
LPS and Protein transport inhibitor treated THP-1 cells were subjected to SDS PAGE followed by western blot with 82696-6-RR (IL1B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82696-6-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP80001-1, IL-1 beta Hybrid Matched Antibody Pair, PBS Only. Capture antibody: 82696-6-PBS. Detection antibody: 65276-1-PBS. Standard:HZ-1164. Range: 6.25-100 ng/mL



Cytometric bead array standard curve of MP80001-2, IL-1 beta Hybrid Matched Antibody Pair, PBS Only. Capture antibody: 82696-6-PBS. Detection antibody: 68767-1-PBS. Standard:HZ-1164. Range:3.125-100 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 82696-6-RR against Human IL-1 Beta were performed. The affinity constant is 202 nM.