

For Research Use Only

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

Catalog Number: 82696-6-PBS



Basic Information

Catalog Number:

82696-6-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC008678

GeneID (NCBI):

3553

ENSEMBL Gene ID:

ENSG00000125538

UNIPROT ID:

P01584

Full Name:

interleukin 1, beta

Calculated MW:

269 aa, 31 kDa

Observed MW:

30-35 kDa

Purification Method:

Protein A purification

CloneNo.:

319

Applications

Tested Applications:

WB, Cytometric bead array, Indirect ELISA

Species Specificity:

human

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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

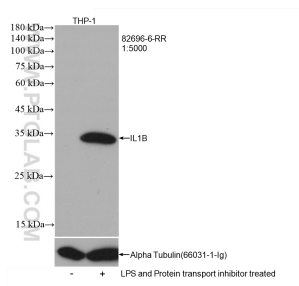
T: 4006900926

E: Proteintech-CN@ptglab.com

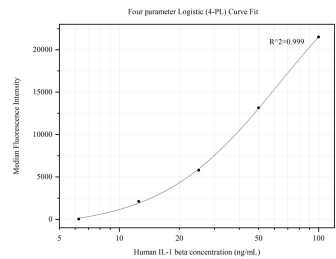
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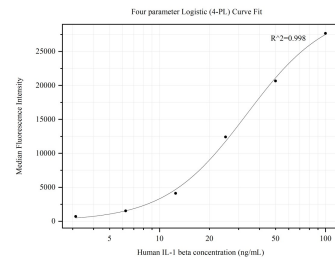
Selected Validation Data



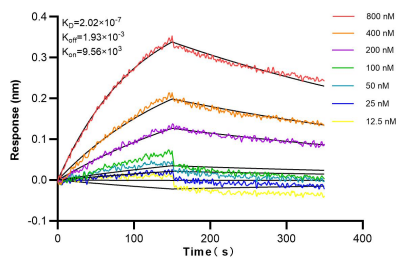
LPS and Protein transport inhibitor treated THP-1 cells were subjected to SDS PAGE followed by western blot with 82696-6-RR (IL1B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82696-6-PBS in a different storage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



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