For Research Use Only

IL-1 Beta Monoclonal antibody

Catalog Number:66737-1-lg Featured Product

66 Publications

BC008678

3553

GeneID (NCBI):

ENSEMBL Gene ID:

ENSG00000125538

GenBank Accession Number:



Basic Information

Catalog Number: 66737-1-lg

Size: 2000 μg/ml

Source: Mouse Isotype:

Immunogen Catalog Number:

AG26030

P01584 **Full Name:** interleukin 1, beta Calculated MW:

UNIPROT ID:

269 aa, 31 kDa Observed MW: 35 kDa

Positive Controls:

WB: A431 cells, U-87 MG cells

IHC: human lung cancer tissue, human skin cancer

Purification Method:

Protein A purification

Recommended Dilutions: WB 1:1000-1:6000

CloneNo.: 2A1B4

IHC 1:50-1:500

Applications

Tested Applications:

FC, IHC, WB, ELISA Cited Applications:

Cell treatment, ELISA, IF, IHC, IP, WB

Species Specificity:

Human

Cited Species:

human, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be operformed with citrate buffer pH 6.0

Background Information

Interleukin-1 is a pro-inflammatory cytokine with multiple biological effects. The IL-1 gene family encodes three proteins: IL-1 a, 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. $IL-1\beta \ \ is \ emerging \ as \ a \ key \ mediator \ of \ carcinogenesis \ that \ characterizes \ host-environment interactions. \ Human \ IL-part \ for \ and \ have \ becomes \ for \ carcinogenesis \ that \ characterizes \ host-environment interactions. \ Human \ IL-part \ for \ carcinogenesis \ that \ characterizes \ host-environment \ interactions.$ 1β 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
Jinghong Zhong	36177510	J Biochem Mol Toxicol	Cell treatment
Yingying Wang	36174863	Int J Biol Macromol	WB
Yuan Gao	34630116	Front Pharmacol	WB,ELISA

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.

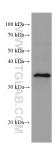
Aliquoting is unnecessary for -20°C storage

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

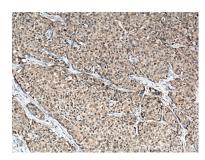
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

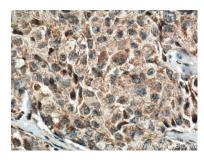
Selected Validation Data



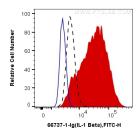
A431 cells were subjected to SDS PAGE followed by western blot with 66737-1-1g (ll-1 Beta antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66737-1-1g (IL1 beta antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66737-1-1g (IL1 beta antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 THP-1 cells untreated (dashed lines), LPS treated (red) were intracellularly stained with 0.4 ug Anti-Human IL-1 Beta (66737-1-lg, Clone:2A1B4) and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.4 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).