

For Research Use Only

IL-1 Beta Monoclonal antibody

Catalog Number: 66737-1-Ig

Featured Product

68 Publications



Basic Information

Catalog Number: 66737-1-Ig	GenBank Accession Number: BC008678	Purification Method: Protein A purification
Size: 150ul, Concentration: 2300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3553	CloneNo.: 2A1B4
Source: Mouse	ENSEMBL Gene ID: ENSG00000125538	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Isotype: IgG1	UNIPROT ID: P01584	
Immunogen Catalog Number: AG26030	Full Name: interleukin 1, beta	
	Calculated MW: 269 aa, 31 kDa	
	Observed MW: 35 kDa	

Applications

Tested Applications: WB, FC, IHC, ELISA	Positive Controls: WB : A431 cells, U-87 MG cells
Cited Applications: WB, IP, IF, IHC, ELISA, Cell treatment	IHC : human lung cancer tissue, human skin cancer tissue
Species Specificity: Human	
Cited Species: human, rabbit, bovine	

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

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

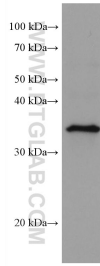
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

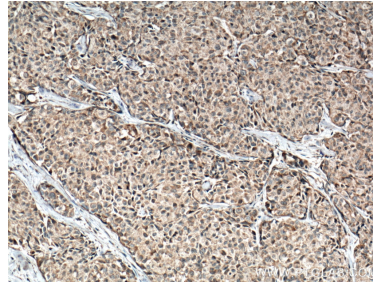
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

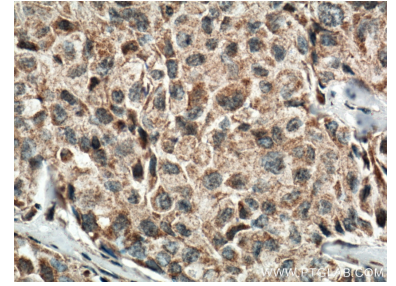
Selected Validation Data



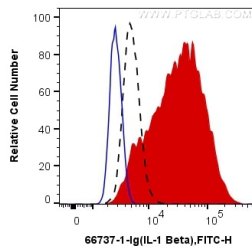
A431 cells were subjected to SDS PAGE followed by western blot with 66737-1-Ig (IL-1 Beta antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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



1X10⁶ THP-1 cells untreated (dashed lines), LPS treated (red) were intracellularly stained with 0.4 ug Anti-Human IL-1 Beta (66737-1-Ig, 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).