For Research Use Only

IL-1 Beta Polyclonal antibody

Catalog Number:16806-1-AP Featured Product 798 Publications

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Basic Information

Catalog Number:
16806-1-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10295

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:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF, ELISA

Species Specificity:
human

Cited Species:
human, pig, rabbit, canine, zebrafish, bovine, sheep

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

Positive Controls:

WB : LPS and Protein transport inhibitor treated THP-1 cells, human adrenal gland tissue, A431 cells

IHC : human tonsillitis tissue, human kidney tissue

Background Information

Interleukin-1 is a pro-inflammatory cytokine with multiple biological effects. The IL-1 gene family encodes three proteins: IL-1α, IL-1β and their naturally occurring inhibitor Il-1RN. IL-1 Beta(IL-1β), mainly produced by blood monocytes and tissue macrophages, has been implicated in mediating both acute and chronic inflammation. IL-1β is known to be involved in a variety of cellular activities, including cell proliferation, differentiation and apoptosis. IL-1β is emerging as a key mediator of carcinogenesis that characterizes host-environment interactions. Human IL-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
Yangfei Yi	36178080	Orthop Surg	WB
JiangFan Yu	36248980	Front Oncol	WB
Chuyue Zhang	30272163	Hum Reprod	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
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
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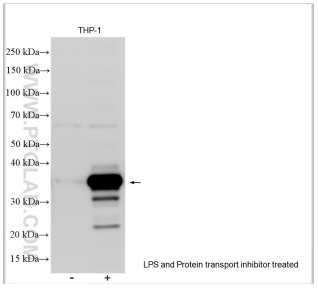
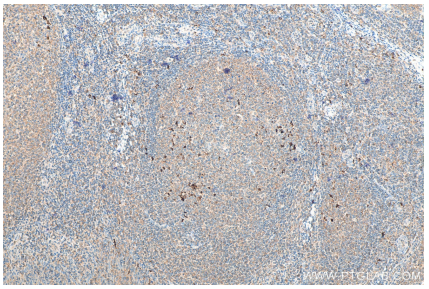
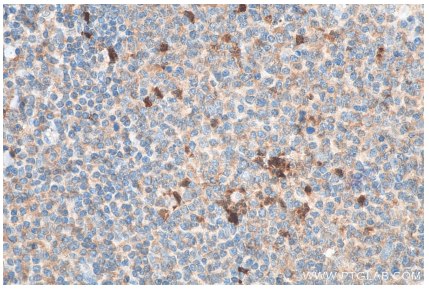
Selected Validation Data



Non-treated THP-1 cells, THP-1 cells (treated with 100 ng/ml LPS for 3h, then added 300 ng/ml protein transport inhibitor for 3h) were subjected to SDS PAGE followed by western blot with 16806-1-AP (IL-1 Beta antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 16806-1-AP (IL-1 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 tonsillitis tissue slide using 16806-1-AP (IL-1 Beta antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).