

IL-1 Alpha Polyclonal antibody

Catalog Number: 16765-1-AP

34 Publications

Basic Information

Catalog Number: 16765-1-AP	GenBank Accession Number: BC013142	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 µg/ml by Nanodrop;	GeneID (NCBI): 3552	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: interleukin 1, alpha	
Isotype: IgG	Calculated MW: 271 aa, 31 kDa	
Immunogen Catalog Number: AG10339	Observed MW: 30 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: ELISA, IF, IHC, WB	WB: PMA, LPS and Brefeldin A treated THP-1 cells, human placenta tissue, mouse liver tissue, mouse lung tissue
Species Specificity: human, mouse	IHC: human appendicitis tissue,
Cited Species: human, rat, mouse	IF: RAW 264.7 cells,
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-1α (IL-1 Alpha) is a protein that plays a crucial role in the regulation of a number of key cellular processes. IL-1 Alpha is a cytokine and a potent mediator of body's response to inflammation, microbial invasion, tissue injury and immunological response. In addition, recent studies suggest that IL-1 Alpha also has a role in wound healing, rheumatoid arthritis, Alzheimer's disease and tumor growth. IL-1 Alpha functions as an alarmin during the process of sterile inflammation. It serves as a signal from dying cells to potentiate the inflammatory response, increasing the expression of other secreted factors like IL-6 and IL-8. IL-1 Alpha was found to affect the cell cycle of osteosarcoma cell to reduce cell growth. IL-1 Alpha is initially translated as approximately 30-kD polypeptides that are processed to approximately 17.5-kD polypeptides prior to, or during, release from macrophages.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenlong Zhao	36116152	Int Immunopharmacol	WB
Zhifeng Zhao	33173984	Mol Med Rep	IHC
Nao Kimura	31757582	J Tissue Viability	IHC

Storage

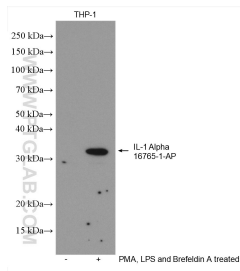
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

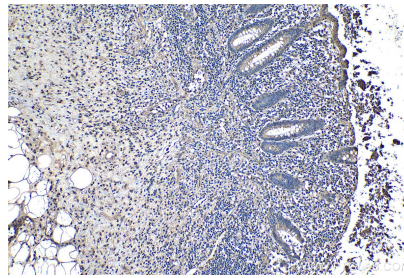
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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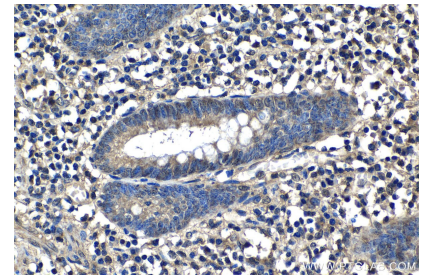
Selected Validation Data



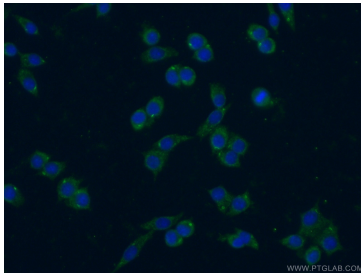
Untreated THP-1 cells, THP-1 cells (treated with 50 nM PMA and 5 ug/ml LPS for 24 hours, with addition of 300ng/ml Brefeldin A for the last 3 hours.) were subjected to SDS PAGE followed by western blot with 16765-1-AP (IL-1 Alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 16765-1-AP (IL-1 Alpha 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 appendicitis tissue slide using 16765-1-AP (IL-1 Alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed RAW 264.7 cells using 16765-1-AP (IL 1 alpha antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).