

For Research Use Only

# IL-1 alpha Polyclonal antibody

Catalog Number: 16765-1-AP

44 Publications



## Basic Information

<b>Catalog Number:</b> 16765-1-AP	<b>GenBank Accession Number:</b> BC013142	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3552	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01583	IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 1, alpha	IF/ICC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG10339	<b>Calculated MW:</b> 271 aa, 31 kDa	
	<b>Observed MW:</b> 30 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF, ELISA	<b>WB :</b> PMA, LPS and Brefeldin A treated THP-1 cells, human placenta tissue, mouse liver tissue, mouse lung tissue
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human appendicitis tissue,
<b>Cited Species:</b> human, mouse, rat	<b>IF/ICC :</b> RAW 264.7 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Interleukin-1 $\alpha$  (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

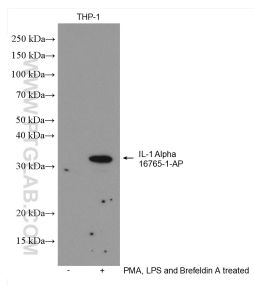
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

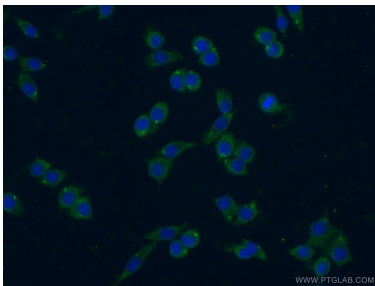
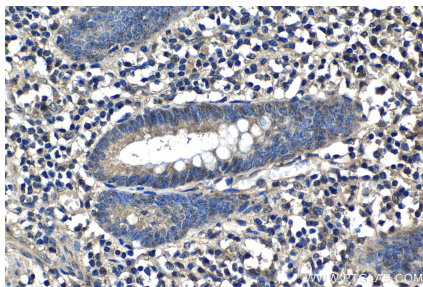
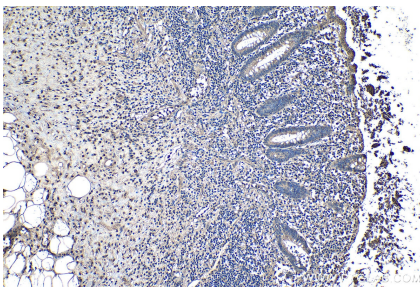
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## Selected Validation Data



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.



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).