

For Research Use Only

IL-1 alpha Recombinant antibody

Catalog Number: 84411-5-RR



Basic Information

Catalog Number: 84411-5-RR	GenBank Accession Number: BC013142	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 3552	CloneNo.: 241752F1
Source: Rabbit	UNIPROT ID: P01583	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Isotype: IgG	Full Name: interleukin 1, alpha	
Immunogen Catalog Number: HZ-1320	Calculated MW: 271 aa, 31 kDa	
	Observed MW: 31 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : PMA and LPS treated THP-1 cells, IHC : human colon cancer tissue,
Species Specificity: human	

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 α (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.

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:

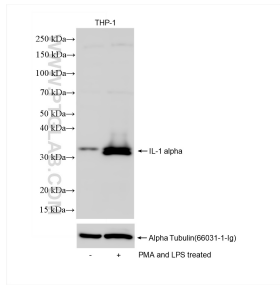
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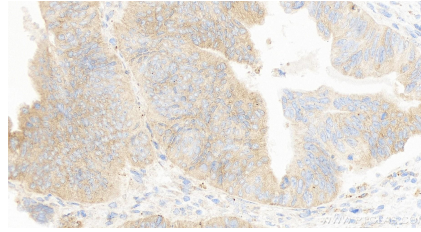
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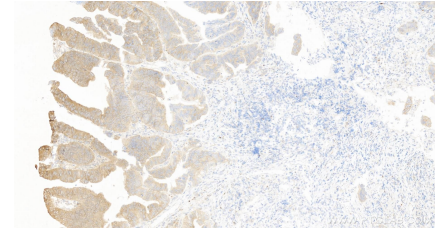
Selected Validation Data



PMA and LPS treated THP-1 cells were subjected to SDS PAGE followed by western blot with 84411-5-RR (IL-1 alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84411-5-RR (IL-1 alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84411-5-RR (IL-1 alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).