

## IL-1 $\alpha$ Polyclonal Antibody

<b>Catalog No :</b>	YT2321
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	IL-1 $\alpha$
<b>Fields :</b>	>>MAPK signaling pathway;>>Cytokine-cytokine receptor interaction;>>Necroptosis;>>Cellular senescence;>>Osteoclast differentiation;>>Hematopoietic cell lineage;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling pathway in diabetic complications;>>Type I diabetes mellitus;>>Alzheimer disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Pertussis;>>Leishmaniasis;>>Tuberculosis;>>Measles;>>Influenza A;>>Inflammatory bowel disease;>>Rheumatoid arthritis;>>Graft-versus-host disease;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	IL1A
<b>Protein Name :</b>	Interleukin-1 alpha
<b>Human Gene Id :</b>	3552
<b>Human Swiss Prot No :</b>	P01583
<b>Mouse Gene Id :</b>	16175
<b>Mouse Swiss Prot No :</b>	P01582
<b>Rat Gene Id :</b>	24493
<b>Rat Swiss Prot No :</b>	P16598
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human IL-1alpha. AA range:8-57
<b>Specificity :</b>	IL-1 $\alpha$ Polyclonal Antibody detects endogenous levels of IL-1 $\alpha$ protein.

<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	31kD
<b>Cell Pathway :</b>	MAPK_ERK_Growth;MAPK_G_Protein;Cytokine-cytokine receptor interaction;Apoptosis_Inhibition;Apoptosis_Mitochondrial;Apoptosis_Overview;Hematopoietic cell lineage;Type I diabetes mellitus;Prion diseases
<b>Background :</b>	<p>The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008],</p>
<b>Function :</b>	<p>domain:The similarity among the IL-1 precursors suggests that the amino ends of these proteins serve some as yet undefined function.,function:Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.,online information:Interleukin-1 entry,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the IL-1 family.,subcellular location:The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.,subunit:Mono</p>
<b>Subcellular Location :</b>	<p>Cytoplasm . Secreted . The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins. The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the</p>

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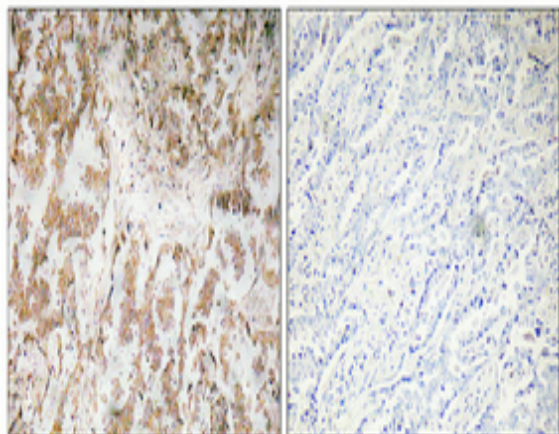
ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059). .

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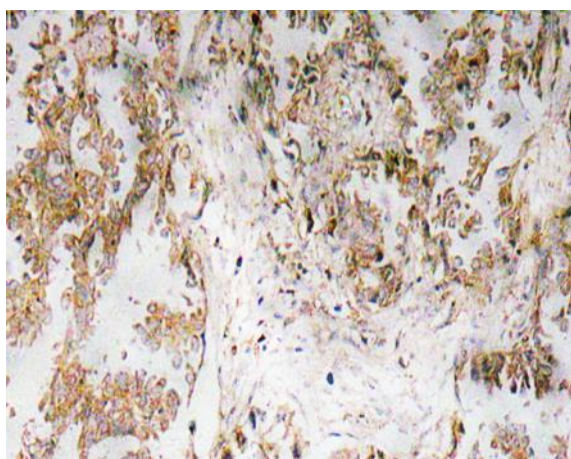
**Expression :** Lung,

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## Products Images



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of IL-1 $\alpha$  antibody in paraffin-embedded human lung carcinoma tissue.