

## IL-8 Polyclonal Antibody

<b>Catalog No :</b>	YT5153
<b>Reactivity :</b>	Human
<b>Applications :</b>	IF;WB;IHC;ELISA
<b>Target :</b>	IL-8
<b>Fields :</b>	>>Cytokine-cytokine receptor interaction;>>Viral protein interaction with cytokine and cytokine receptor;>>Chemokine signaling pathway;>>NF-kappa B signaling pathway;>>Phospholipase D signaling pathway;>>Cellular senescence;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>IL-17 signaling pathway;>>Non-alcoholic fatty liver disease;>>AGE-RAGE signaling pathway in diabetic complications;>>Alcoholic liver disease;>>Epithelial cell signaling in Helicobacter pylori infection;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Salmonella infection;>>Pertussis;>>Legionellosis;>>Yersinia infection;>>Chagas disease;>>Malaria;>>Amoebiasis;>>Hepatitis B;>>Human cytomegalovirus infection;>>Influenza A;>>Kaposi sarcoma-associated herpesvirus infection;>>Coronavirus disease - COVID-19;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Bladder cancer;>>Rheumatoid arthritis;>>Lipid and atherosclerosis
<b>Gene Name :</b>	IL8 CXCL8
<b>Protein Name :</b>	Interleukin-8
<b>Human Gene Id :</b>	3576
<b>Human Swiss Prot No :</b>	P10145
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the C-terminal region of human IL8. AA range:50-99
<b>Specificity :</b>	IL-8 Polyclonal Antibody detects endogenous levels of IL-8 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** IF 1:50-200 WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. Not yet tested in other applications.

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 11kD

**Cell Pathway :** Cytokine-cytokine receptor interaction;Chemokine;Toll\_Like;NOD-like receptor;RIG-I-like receptor;Epithelial cell signaling in Helicobacter pylori infection;Pathways in cancer;Bladder cancer;

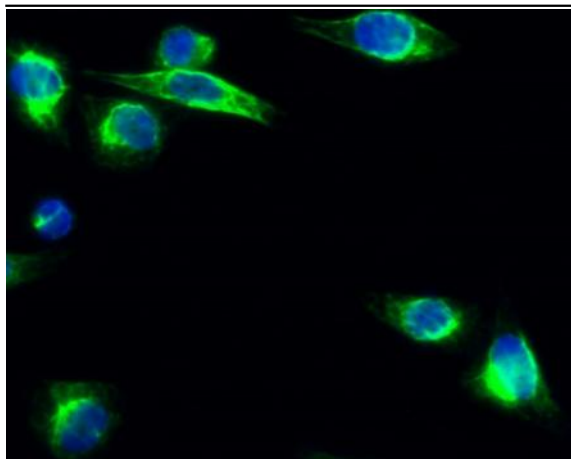
**Background :** The protein encoded by this gene is a member of the CXC chemokine family. This chemokine is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. This gene is believed to play a role in the pathogenesis of bronchiolitis, a common respiratory tract disease caused by viral infection. This gene and other ten members of the CXC chemokine gene family form a chemokine gene cluster in a region mapped to chromosome 4q. [provided by RefSeq, Jul 2008],

**Function :** function:IL-8 is a chemotactic factor that attracts neutrophils, basophils, and T-cells, but not monocytes. It is also involved in neutrophil activation. It is released from several cell types in response to an inflammatory stimulus. IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as compared to IL-8(1-77), respectively.,online information:Interleukin-8 entry,PTM:Several N-terminal processed forms are produced by proteolytic cleavage after secretion from at least peripheral blood monocytes, leukocytes and endothelial cells. In general, IL-8(1-77) is referred to as interleukin-8. IL-8(6-77) is the most prominent form.,similarity:Belongs to the intercrine alpha (chemokine CxC) family.,subunit:Homodimer.,

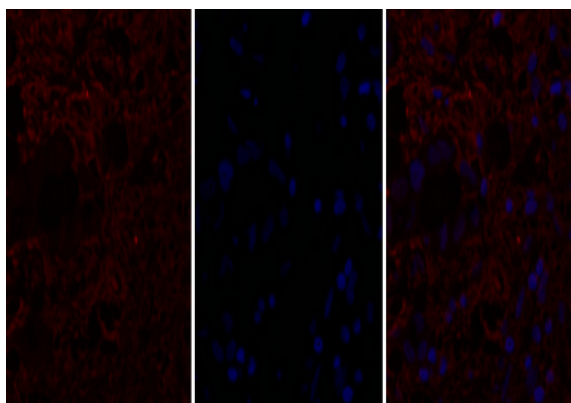
**Subcellular Location :** Secreted.

**Expression :** Chronic myeloid leukemia cell,Kidney,Lung,Lung carcinoma,Neutrophil,Periphe

## Products Images



Immunofluorescence analysis of HeLa cell. 1,IL-8 Polyclonal Antibody(green) was diluted at 1:200(4 ° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.

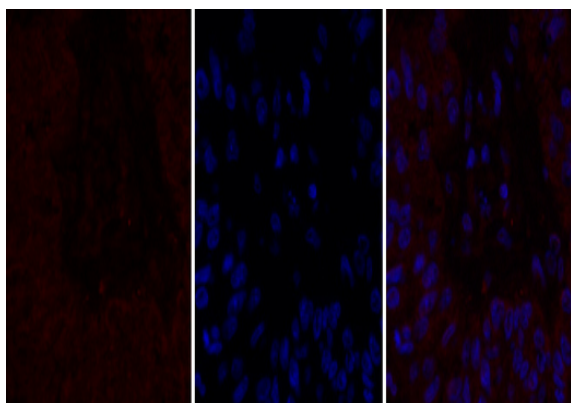


A

B

C

Immunofluorescence analysis of human-breast-cancer tissue. 1,IL-8 Polyclonal Antibody(red) was diluted at 1:200(4 °C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture C: merge of A+B

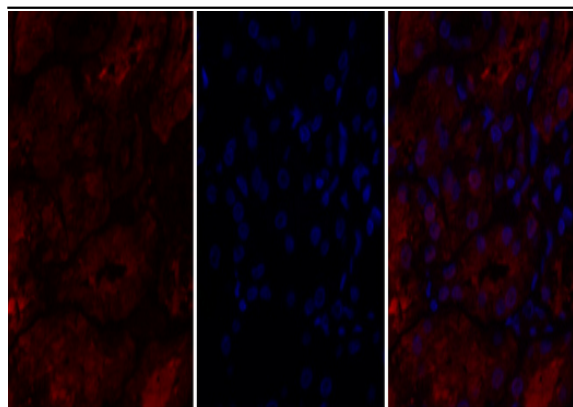


A

B

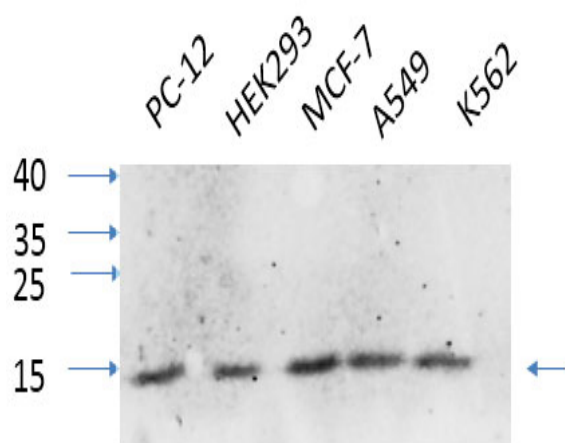
C

Immunofluorescence analysis of human-liver-cancer tissue. 1,IL-8 Polyclonal Antibody(red) was diluted at 1:200(4 °C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture C: merge of A+B

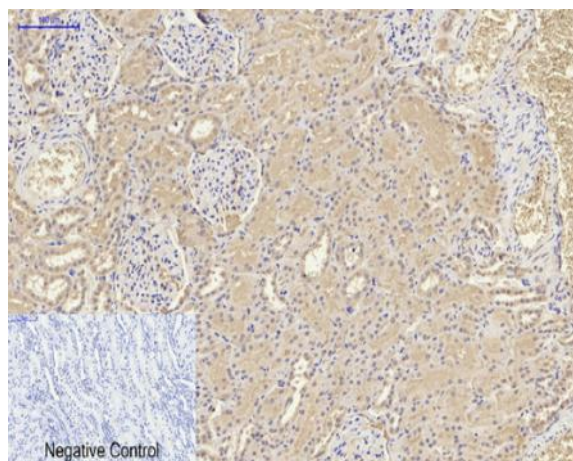


A B C

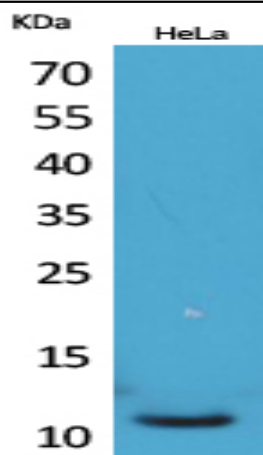
Immunofluorescence analysis of human-kidney tissue. 1,IL-8 Polyclonal Antibody(red) was diluted at 1:200(4 °C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



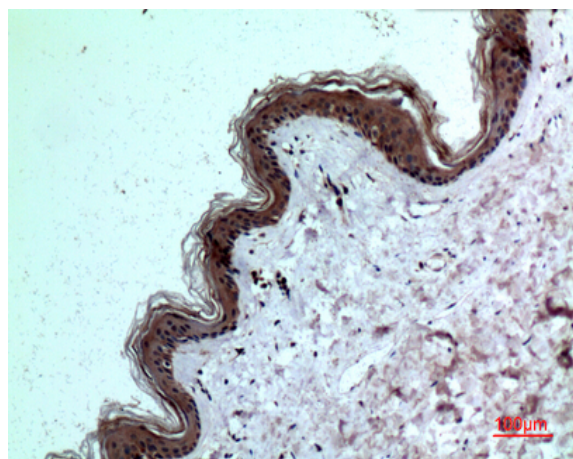
Western Blot analysis of various cells using primary antibody diluted at 1:1000(4 °C overnight). Secondary antibody:Goat Anti-rabbit IgG IRDye 800( diluted at 1:5000, 25 °C, 1 hour). Cell lysate was extracted by Minute™ Plasma Membrane Protein Isolation and Cell Fractionation Kit(SM-005, Inventbiotech,MN,USA).



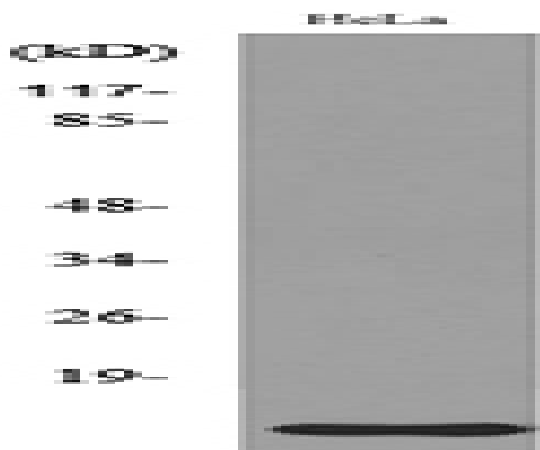
Immunohistochemical analysis of paraffin-embedded Human-kidney tissue. 1,IL-8 Polyclonal Antibody was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of HeLa cells using IL-8 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-skin, antibody was diluted at 1:100



Western blot analysis of lysate from HeLa cells, using IL8 Antibody.