

IL-8 Polyclonal Antibody

Catalog # AP73336

Product Information

Application WB, IHC-P, IF
Primary Accession P10145
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 11098

Additional Information

Gene ID 3576

Other Names IL8; CXCL8; Interleukin-8; IL-8; C-X-C motif chemokine 8; Emoctakin;

Granulocyte chemotactic protein 1; GCP-1; Monocyte-derived neutrophil chemotactic factor; MDNCF; Monocyte-derived neutrophil-activating peptide; MONAP; Neutrophil-activating protein 1; NAP-1; Protein 3-10C; T-cell

chemotactic factor

Dilution WB~~IF: 1:50-200 Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA:

1/20000. Not yet tested in other applications. IHC-P \sim IF: 1:50-200 Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. Not yet tested in other applications. IF \sim IF: 1:50-200 Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300

ELISA: 1/20000. Not yet tested in other applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

Name CXCL8

Synonyms IL8

Function Chemotactic factor that mediates inflammatory response by attracting

neutrophils, basophils, and T-cells to clear pathogens and protect the host

from infection (PubMed:<u>18692776</u>, PubMed:<u>7636208</u>). Also plays an important role in neutrophil activation (PubMed:<u>2145175</u>, PubMed:<u>9623510</u>).

Released in response to an inflammatory stimulus, exerts its effect by binding to the G-protein-coupled receptors CXCR1 and CXCR2, primarily found in

neutrophils, monocytes and endothelial cells (PubMed: 1840701,

PubMed:<u>1891716</u>). G-protein heterotrimer (alpha, beta, gamma subunits) constitutively binds to CXCR1/CXCR2 receptor and activation by IL8 leads to

beta and gamma subunits release from Galpha (GNAI2 in neutrophils) and activation of several downstream signaling pathways including PI3K and MAPK pathways (PubMed:11971003, PubMed:8662698).

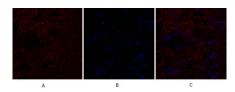
Cellular Location

Secreted.

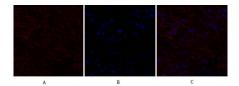
Background

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.

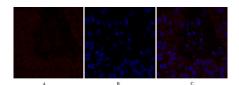
Images



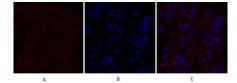
Immunofluorescence analysis of human-breast-cancer tissue. 1,IL-8 Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



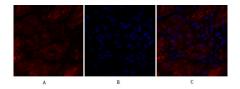
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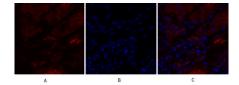
Immunofluorescence analysis of human-liver-cancer tissue. 1,IL-8 Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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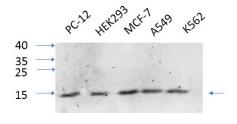


Immunofluorescence analysis of human-kidney tissue. 1,IL-8 Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

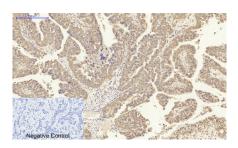


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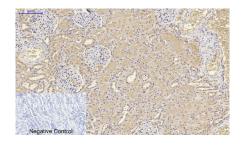
Picture C: merge of A+B



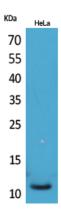
Western Blot analysis of various cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody: Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour). Cell lysate was extracted by Minute ™ Plasma Membrane Protein Isolation and Cell Fractionation Kit(SM-005, Inventbiotech,MN,USA).



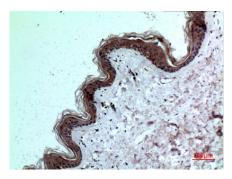
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,IL-8 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was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



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.

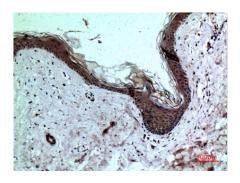


Western Blot analysis of HeLa cells using IL-8 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



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

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



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