

IL8 Rabbit mAb

Catalog No.: A24736 **Recombinant**

Basic Information

Observed MW

11kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC, FC (intra)

Cross-Reactivity

Human

CloneNo number

ARC63866

Background

The protein encoded by this gene is a member of the CXC chemokine family and is a major mediator of the inflammatory response. The encoded protein is commonly referred to as interleukin-8 (IL-8). IL-8 is secreted by mononuclear macrophages, neutrophils, eosinophils, T lymphocytes, epithelial cells, and fibroblasts. It functions as a chemotactic factor by guiding the neutrophils to the site of infection. Bacterial and viral products rapidly induce IL-8 expression. IL-8 also participates with other cytokines in the proinflammatory signaling cascade and plays a role in systemic inflammatory response syndrome (SIRS). This gene is believed to play a role in the pathogenesis of the lower respiratory tract infection bronchiolitis, a common respiratory tract disease caused by the respiratory syncytial virus (RSV). The overproduction of this proinflammatory protein is thought to cause the lung inflammation associated with cystic fibrosis. This proinflammatory protein is also suspected of playing a role in coronary artery disease and endothelial dysfunction. This protein is also secreted by tumor cells and promotes tumor migration, invasion, angiogenesis and metastasis. This chemokine is also a potent angiogenic factor. The binding of IL-8 to one of its receptors (IL-8RB/CXCR2) increases the permeability of blood vessels and increasing levels of IL-8 are positively correlated with increased severity of multiple disease outcomes (eg, sepsis). This gene and other members of the CXC chemokine gene family form a gene cluster in a region of chromosome 4q.

Recommended Dilutions

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200
FC (intra)	1:500 - 1:1000

Immunogen Information

Gene ID

3576

Swiss Prot

P10145

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 28-99 of human IL8(NP_000575.1).

Synonyms

IL8; NAF; GCP1; LECT; LUCT; NAP1; GCP-1; LYNAP; MDNCF; MONAP; NAP-1; SCYB8

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

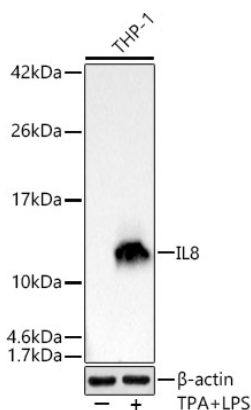
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from THP-1 cells using IL8 Rabbit mAb (A24736) at 1:1000 dilution. THP-1 cells were treated by PMA/TPA (80 nM) at 37°C for overnight and LPS (1 µg/ml) at 37°C for 6 hours.

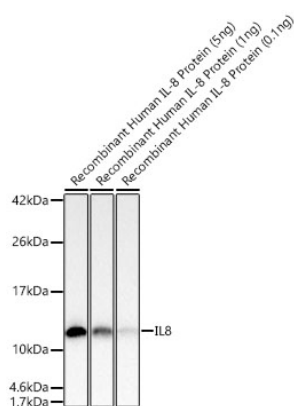
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Western blot analysis of recombinant Human IL-8 Protein, using IL8 Rabbit mAb (A24736) at 1:1000 dilution.

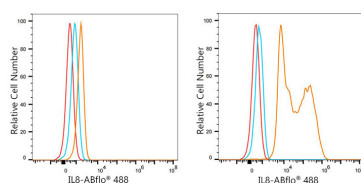
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 5 ng/1 ng/0.1 ng per lane.

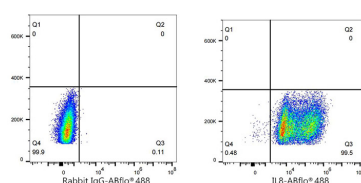
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

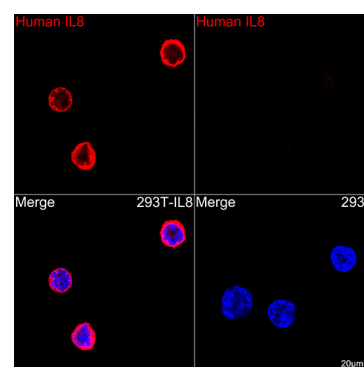
Exposure time: 1s.



Flow cytometry: 1×10^6 293T cells (negative control, left) and 293T (Transfection, right) cells were intracellularly-stained with IL8 Rabbit mAb (A24736, 2 µg/mL, orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 5 µg/mL, blue line), followed by FITC conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 293T (Transfection) cells were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 5 µg/mL, left) or IL8 Rabbit mAb (A24736, 2 µg/mL, right).



Confocal imaging of 293T cells transfected with IL8 using IL8 Rabbit mAb (A24736, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (blue). Objective: 100x.