IL-8 (CXCL8) Monoclonal Antibody (3IL8-H10)

Product Details	
Size	500 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	3IL8-H10
Conjugate	Unconjugated
Immunogen	Recombinant human IL-8
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_223583

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	2 µg/mL	1 Publication
ELISA (ELISA)	Assay-dependent	20 Publications
Radioimmune Assays (RIA)	-	1 Publication

Product Specific Information

M801 targets IL-8 in ELISA, and WB applications and shows reactivity with Human samples.

The M801 immunogen is recombinant human IL-8.

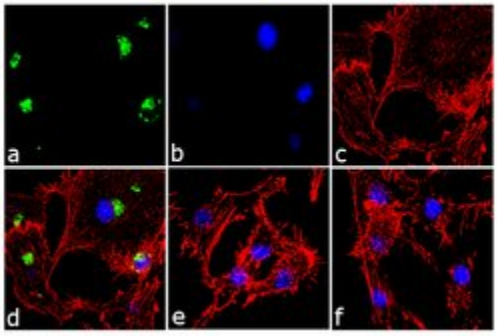
M801 detects IL-8 which has a predicted molecular weight of approximately 9 kDa.

The M801 IL8 antibody (clone 3IL8-H10) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M802B (biotinylated conjugate of clone I8-S2). Typical dilutions for sandwich ELISA include 1 µg/mL for coating and 0.125 - 0.25 µg/mL for detection.

Antibody M801 (clone 3IL8-H10) and biotinylated antibody M802B (clone I8-S2) have successfully been used in combination with recombinant IL8 protein SIL8 in ELISA applications.

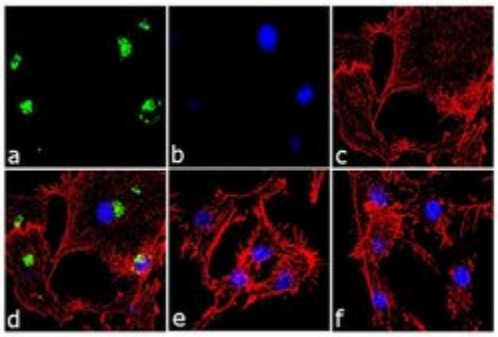
This product has been tested for endotoxins by limulus amoebocyte lysate (LAL) assay and contains an endotoxin concentration of less than or equal to 10 endotoxin units per milligram (EU/mg).

Advanced Verification Data

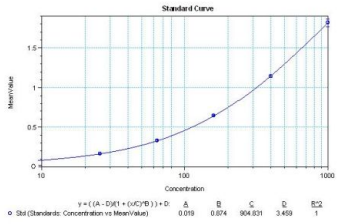


IL-8 (CXCL8) Antibody (M801)
Modulation of expression of target protein by cell treatment to demonstrate antibody specificity. Immunofluorescence analysis of CXCL8 using anti-CXCL8 mouse monoclonal antibody (Catalog # M801) shows increased expression of CXCL8 in U87MG upon treatment with thapsigargin. Cell treatment validation info.

Product Images For IL-8 (CXCL8) Monoclonal Antibody (3IL8-H10)



IL-8 (CXCL8) Antibody (M801) in ICC/IF
Immunofluorescence analysis of IL-8 was performed using 70% confluent log phase U-87 MG cells treated 1 uM thapsigargin for 24 hours. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with IL-8 (3IL8-H10) Mouse Monoclonal Antibody (Product # M801) at 2µg /mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjµgate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e is untreated cell with no signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



IL-8 (CXCL8) Antibody (M801) in ELISA
Sandwich ELISA analysis of human IL-8 was performed using a Human IL-8 Colorimetric ELISA kit (Product # EH2IL8) by loading 50 µL per well of Human IL-8 Recombinant Protein (Product # SIL8) in dodecuplicate at 1000, 400, 160, 64, 25.6, and 0 pg/mL across a 3 µg/mL mouse anti-Human IL-8 (Product # M801) pre-coated plate and incubating for 1 hour at room temperature. The plate was washed, and then incubated with 50 µL per well of a biotinylated mouse anti-human IL-8 monoclonal antibody (Product # M802B) in duplicate at 0.25 µg/mL for 1 hour at room temperature. The plate was washed and incubated with 100 µL per well of Streptavidin-HRP (Product # N504) in all test wells at a 1:4,000 dilution for 30 minutes at room temperature. Detection was performed using 1-Step Ultra TMB substrate (Product # 34028) for 30 minutes at room temperature in the dark. The plate was then stopped with 0.16M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.

View more figures on thermofisher.com

23 References

Immunohistochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)

Rapamycin treatment depresses intragraft expression of KC/MIP-2, granzyme B, and IFN-gamma in rat recipients of cardiac allografts.

"M801 was used in immunohistochemistry to investigate the effects of rapamycin on KC/MIP-2, granzyme B, and interferon gamma expression on cardiac allografts"

Authors: Wieder KJ,Hancock WW,Schmidbauer G,Corpier CL,Wieder I,Kobzik L,Strom TB,Kupiec-Weglinski JW

Species
Human

Dilution
Not Cited

Year
1993

Immunocytochemistry (1)

Journal of cellular and molecular medicine

Neuropilin-1 is up-regulated by cancer-associated fibroblast-secreted IL-8 and associated with cell proliferation of gallbladder cancer.

"M801 was used in an ELISA assay to demonstrate how Neuropilin-1 causes gallbladder cancer cell proliferation through upregulation by cancer-associated fibroblast-secreted IL-8."

Authors: Chen C,Zhang R,Ma L,Li Q,Zhao YL,Zhang GJ,Zhang D,Li WZ,Cao S,Wang L,Geng ZM

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

ELISA (20)

Journal of cellular and molecular medicine

Neuropilin-1 is up-regulated by cancer-associated fibroblast-secreted IL-8 and associated with cell proliferation of gallbladder cancer.

"M801 was used in an ELISA assay to demonstrate how Neuropilin-1 causes gallbladder cancer cell proliferation through upregulation by cancer-associated fibroblast-secreted IL-8."

Authors: Chen C,Zhang R,Ma L,Li Q,Zhao YL,Zhang GJ,Zhang D,Li WZ,Cao S,Wang L,Geng ZM

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

Nature communications

Extravascular gelation shrinkage-derived internal stress enables tumor starvation therapy with suppressed metastasis and recurrence.

"M801 was used in an ELISA assay to establish an extravascular gelation shrinkage-derived internal stress strategy for squeezing and narrowing blood vessels, occluding blood & nutrition supply, reducing vascular density, inducing hypoxia and apoptosis and eventually realizing starvation therapy of malignancies."

Authors: Zhang K,Fang Y,He Y,Yin H,Guan X,Pu Y,Zhou B,Yue W,Ren W,Du D,Li H,Liu C,Sun L,Chen Y,Xu H

Species
Mouse

Dilution
Not Cited

Year
2019

View more ELISA references on thermofisher.com

More applications with references on thermofisher.com

RIA (1)