ICAM-1 Monoclonal Antibody (3E2B)

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	3E2B
Conjugate	Unconjugated
Immunogen	Mouse ICAM-1 (CD54)
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage Conditions	-20°C
RRID	AB_223595

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	-
Flow Cytometry (Flow)	Assay Dependent	-
Immunocytochemistry (ICC)	1:10-1:100	-
Immunofluorescence (IF)	1:10-1:100	-
Immunohistochemistry (IHC)	1:200	1 Publication
Inhibition Assays (IA)	Assay Dependent	-
Neutralization (Neu)	Assay Dependent	2 Publications
Western Blot (WB)	1:10-1:100	-

Product Specific Information

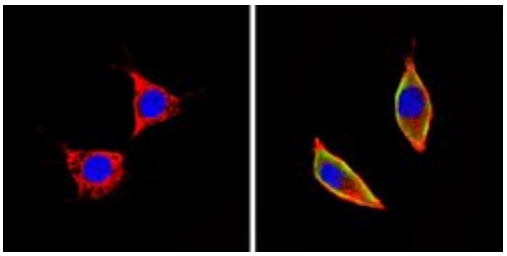
MA5405 targets CD54 in WB, ELISA, FACS, IA, IHC, ICC/IF and Neu applications and shows reactivity with mouse samples.

The MA5405 immunogen is mouse ICAM-1 (CD54).

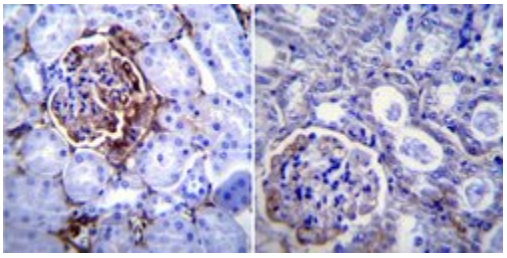
MA5405 detects CD54 which has a predicted molecular weight of approximately 56 kDa.

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).

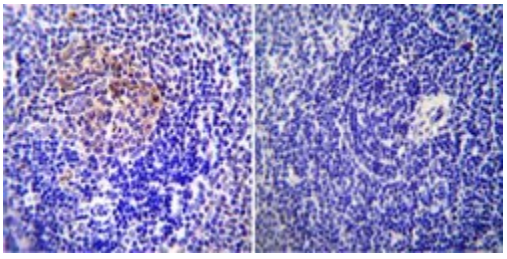
Product Images For ICAM-1 Monoclonal Antibody (3E2B)



ICAM-1 Antibody (MA5405) in IF
Immunofluorescent analysis of CD54 (green) showing staining in the cytoplasm and membrane of NIH-3T3 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a CD54 monoclonal antibody (Product # MA5405) in 3% BSA-PBS at a dilution of 1:50 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



ICAM-1 Antibody (MA5405) in IHC
Immunohistochemistry was performed on normal biopsies of deparaffinized Mouse kidney tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:200 with a Hamster monoclonal antibody recognizing CD54 (Product # MA5405) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



ICAM-1 Antibody (MA5405) in IHC
Immunohistochemistry was performed on normal biopsies of deparaffinized Mouse spleen tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a Hamster monoclonal antibody recognizing CD54 (Product # MA5405) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

View more figures on thermofisher.com

3 References

Immunohistochemistry (1)

Immunology

In vivo microscopy of murine islets of Langerhans: increased adhesion of transferred lymphocytes to islets depends on macrophage-derived cytokines in a model of organ-specific insulitis.

"MA5405 was used in immunohistochemistry to investigate the mechanism for the lymphocyte adhesion to islets of Langerhans"

Authors: Ludwig R,Kretschmer M,Caspar G,Bojunga J,Oldenburg A,Schumm-Draeger P,Stegmüller M,von Minckwitz G, Usadel KH,Kusterer K

Species
Mouse

Dilution
Not Cited

Year
1999

Neutralization (2)

Annals of surgery

Blocking pulmonary ICAM-1 expression ameliorates lung injury in established diet-induced pancreatitis.

"MA5405 was used in blocking/activating experiment to clarify the effect of ICAM-1 expression on the pulmonary injury from pancreatitis"

Authors: Lundberg AH,Fukatsu K,Gaber L,Callicutt S,Kotb M,Wilcox H,Kudsk K,Gaber AO

Species
Mouse

Dilution
2 mg/kg

Year
2001

American journal of physiology. Heart and circulatory physiology

Amelioration of ischemia-reperfusion injury with cyclic peptide blockade of ICAM-1.

"MA5405 was used in blocking/activating experiment to investigate the efficiency of IP25 for the rescue of ischemia induced damage"

Authors: Merchant SH,Gurule DM,Larson RS

Species
Mouse

Dilution
2 mg/kg

Year
2003