# CD44 Monoclonal Antibody (1M7.8.1)

| Product Details | |
|---|---|
| Size | 500 µg |
| Species Reactivity | Human, Mouse |
| Published Species | Rat, Mouse |
| Host/Isotope | Rat / IgG2b |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 1M7.8.1 |
| Conjugate | Unconjugated |
| Immunogen | Mouse 80-95 kD lymphocyte surface glycoprotein H-CAM (CD44). |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein G |
| Storage buffer | PBS |
| Contains | no preservative |
| Storage Conditions | -20°C |
| RRID | AB_223593 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | Assay Dependent | 4 Publications |
| Immunocytochemistry (ICC) | 1:10-1:100 | 1 Publication |
| Immunofluorescence (IF) | 1:10-1:100 | - |
| Immunoprecipitation (IP) | Assay Dependent | - |
| Inhibition Assays (IA) | Assay Dependent | - |
| Western Blot (WB) | Assay Dependent | - |
| Miscellaneous PubMed (Misc) | - | 1 Publication |

### Product Specific Information

MA4405 targets CD44 in FACS, IA, IF, IP, and WB applications and shows reactivity with mouse and Human samples.

The MA4405 immunogen is mouse 80-95 kD lymphocyte surface glycoprotein H-CAM (CD44).

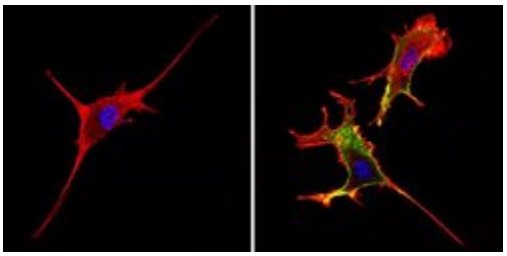
MA4405 detects a standard 85-kDa isoform of CD44 and a number of high molecular mass variant isoforms.

This antibody is produced by injecting Rat IgG secreting hybridoma cells into the peritoneum of mice. The resulting ascites is collected from the mice and the antibody is purified.

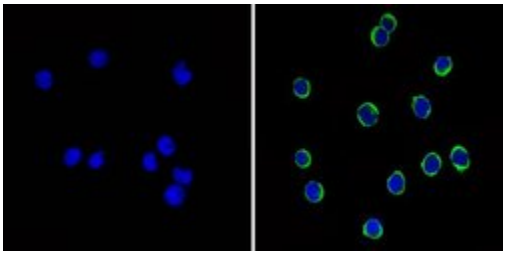
This product is a Low Endotoxin formulation.

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).

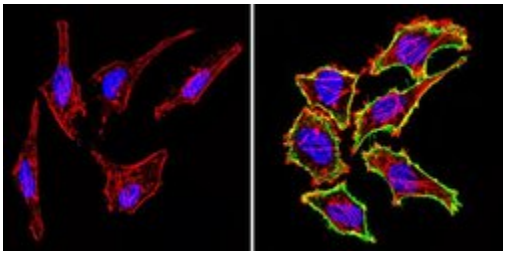
## Product Images For CD44 Monoclonal Antibody (1M7.8.1)



**CD44 Antibody (MA4405) in IF**
Immunofluorescent analysis of CD44 (green) showing staining in the membrane and cytoplasm 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 CD44 monoclonal antibody (Product # MA4405) in 3% BSA-PBS at a dilution of 1:20 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.



**CD44 Antibody (MA4405) in IF**
Immunofluorescent analysis of CD44 (green) showing staining in the membrane of BAF-3 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 CD44 monoclonal antibody (Product # MA4405) in 3% BSA-PBS at a dilution of 1:20 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.



**CD44 Antibody (MA4405) in IF**
Immunofluorescent analysis of CD44 (green) showing staining in the membrane of Hela 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 CD44 monoclonal antibody (Product # MA4405) in 3% BSA-PBS at a dilution of 1:20 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.

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## 6 References

### Flow Cytometry (4)

**The Journal of experimental medicine**

#### DOCK8 deficiency impairs CD8 T cell survival and function in humans and mice.

"MA4405 was used in flow cytometry to determine the role for DOCK8 in peripheral CD8 T cell survival and function"

Authors: Randall KL,Chan SS,Ma CS,Fung I,Mei Y,Yabas M,Tan A,Arkwright PD,Al Suwairi W,Lugo Reyes SO, Yamazaki-Nakashimada MA,Garcia-Cruz Mde L,Smart JM,Picard C,Okada S,Jouanguy E,Casanova JL,Lambe T, Cornall RJ,Russell S,Oliaro J,Tangye SG,Bertram EM,Goodnow CC

**Species**
Not Applicable

**Dilution**
Not Cited

**Year**
2011

**Journal of immunology (Baltimore, Md. : 1950)**

#### Resistance to murine AIDS in offspring of mice infected with LP-BM5. Role of CD8 T cells.

"MA4405 was used in flow cytometry to investigate the role of CD8 T cells in immune responses against murine leukemia viruses"

Authors: Pavlovitch JH,Hulier E,Rizk-Rabin M,Marussig M,Mazier D,Joffret ML,Hoos S,Papiernik M

**Species**
Mouse

**Dilution**
Not Cited

**Year**
1996

View more Flow references on thermofisher.com

### Miscellaneous PubMed (1)

**European journal of immunology**

#### Lymphoid environment limits superantigen and antigen-induced T cell proliferation at high precursor frequency.

"MA4405 was used in flow cytometry to report that the lymphoid environment limits T cell proliferation in response to high superantigen levels."

Authors: Attinger A,MacDonald HR,Acha-Orbea H

**Species**
Mouse

**Dilution**
Not Cited

**Year**
2001

### Immunocytochemistry (1)

**Immunogenetics**

#### Genetic characterization of a polymorphic murine cell-surface glycoprotein.

"MA4405 was used in immunocytochemistry to characterize a murine cell-surface glycoprotein Pgp-1"

Authors: Lesley J,Trowbridge IS

**Species**
Rat

**Dilution**
Not Cited

**Year**
1982

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