CD2 Monoclonal Antibody (TS2/18)

Product Details	
Size	200 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	TS2/18
Conjugate	Unconjugated
Immunogen	Human LFA-2 (CD2)
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_223512

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	-
Flow Cytometry (Flow)	3-5 µg/1x10^6 cells	1 Publication
Immunoprecipitation (IP)	Assay-dependent	-
Neutralization (Neu)	-	4 Publications
Inhibition Assays (IA)	0.5 µg/test	-

Product Specific Information

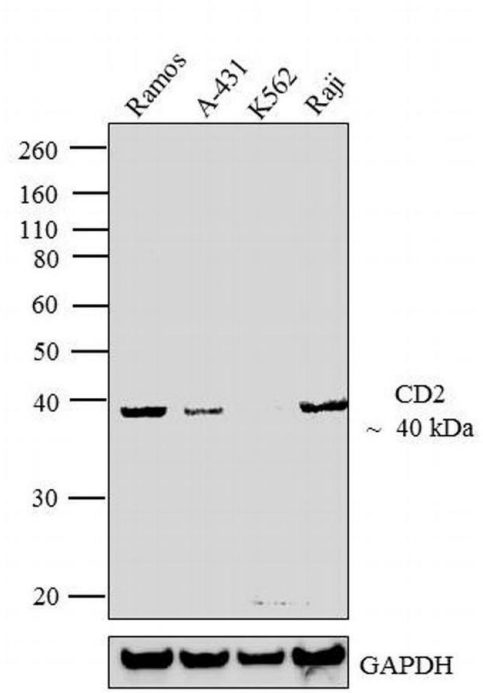
MA0200 targets CD2 in FACS, IA, IP, and WB applications and shows reactivity with Human samples. This antibody does not react with rat tissue in Western blot applications.

The MA0200 immunogen is human LFA-2 (CD2).

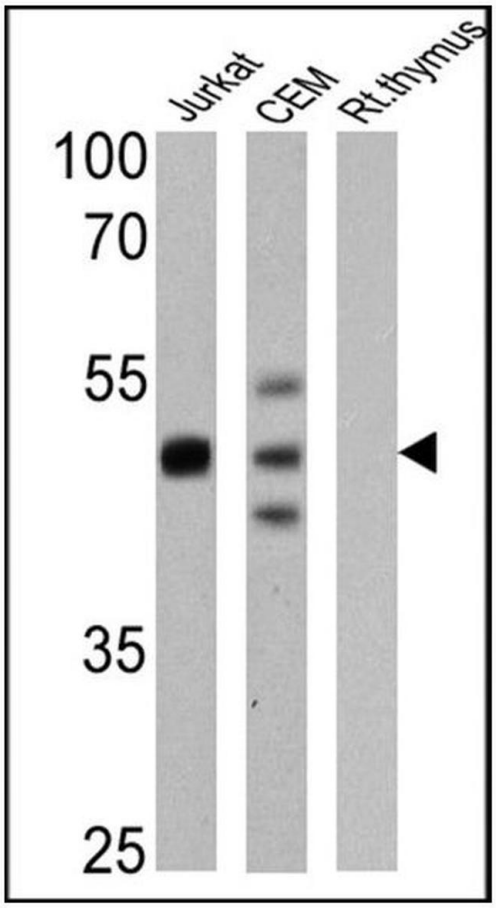
MA0200 detects CD2 which has a predicted molecular weight of approximately 37 kDa.

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).

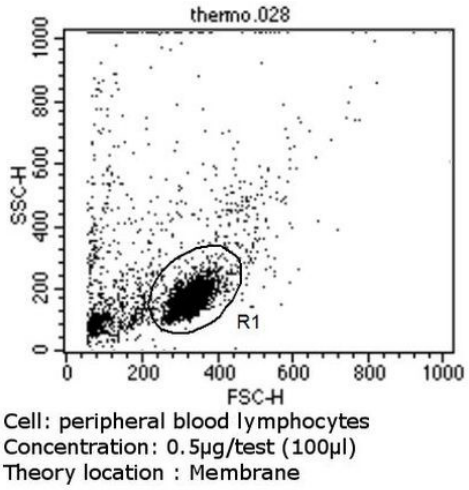
Product Images For CD2 Monoclonal Antibody (TS2/18)



CD2 Antibody (MA0200) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of Ramos (Lane1), A-431 (Lane2), K562 (Lane 3) and Raji (Lane4). The blots were probed with Anti-CD2 Mouse Monoclonal Antibody (Product # MA0200, 0.5-2 µg /mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 40 kDa band corresponding to CD2 was observed across cell lines tested expect for K562. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0341BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody using iBind™ Flex Western Starter Kit (Product # SLF2000S). Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



CD2 Antibody (MA0200) in WB
Western blot analysis of CD2 was performed by loading 25 µg of Jurkat (lane 1), CEM (lane 2) and rat thymus (lane 3) cell lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4ºC overnight. The membrane was probed with a CD2 monoclonal antibody (Product # MA0200) at a dilution of 1:500 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~50 kDa in Jurkat and CEM cells.



CD2 Antibody (MA0200) in Flow
Flow cytometry analysis of CD2 in PBMC cells (green) compared to an isotype control (blue). Human blood was collected, combined with a hydrophilic polysaccharide, centrifuged, transferred to a conical tube and washed with PBS. 50 µL of cell solution was added to each tube at a dilution of 2x10^7 cells/mL, followed by the addition of 50 µL of isotype control and primary antibody (Product # MA0200) at a dilution of 0.5 µg/test. Cells were incubated for 30 min at 4ºC and washed with a cell buffer, followed by incubation with a DyLight 488-conjugated goat anti-mouse IgG (H+L) secondary for 30 min at 4ºC in the dark. FACS analysis was performed using 400 µL of cell buffer.

View more figures on thermofisher.com

5 References

Flow Cytometry (1)

Journal of immunology (Baltimore, Md. : 1950)

CD28-mediated up-regulation of beta 1-integrin adhesion involves phosphatidylinositol 3-kinase.

"MA0200 was used in flow cytometry to investigate the role of PI3K in beta 1-integrin adhesion induced by CD28"

Authors: Zell T,Hunt SW,Mobley JL,Finkelstein LD,Shimizu Y

Year
1996

Species
Human

Neutralization (4)

Allergy

Antibody blocking of MHC II on human activated regulatory T cells abrogates their suppressive potential.

"MA0200 was used in blocking/activating experiment to investigate the role of MHC II in the regulation of Treg cell function"

Authors: Peiser M,Becht A,Wanner R

Year
2007

Species
Human

Dilution
1 µg/10x5 cells

ACS chemical biology

Mechanisms of Cellular Avidity Regulation in CD2-CD58-Mediated T Cell Adhesion.

"MA0200 was used in blocking/activating experiment to study the CD2-CD58-mediated T cell adhesion process"

Authors: Zhu DM,Dustin ML,Cairo CW,Thatte HS,Golan DE

Year
2006

Species
Human

View more Neu references on thermofisher.com

More applications with references on thermofisher.com