

CD38 Monoclonal Antibody (38C03 (SPC32))

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Rabbit, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	38C03 (SPC32)
Conjugate	Unconjugated
Immunogen	Recombinant protein encoding the extracellular domain of human CD38
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10986743

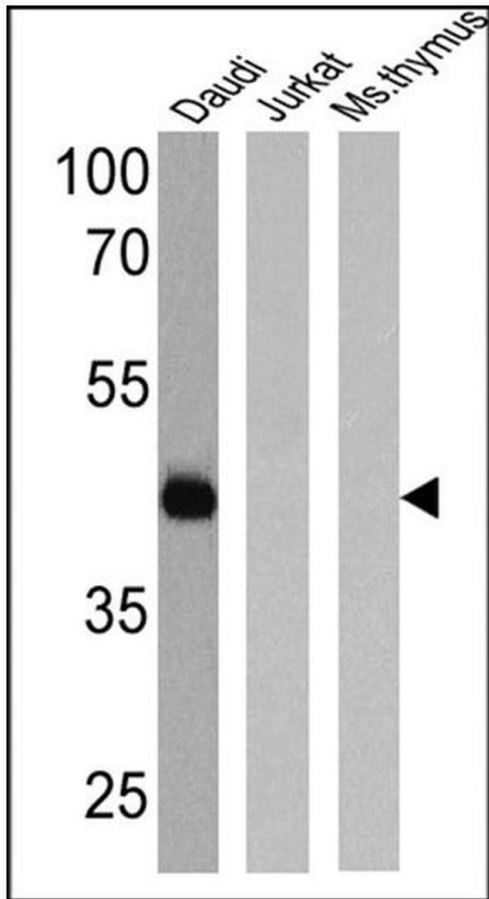
Applications	Tested Dilution	Publications
Western Blot (WB)	1:50-1:200	1 Publication
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100	2 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1:2	-

Product Specific Information

MA5-14413 targets CD38 in WB, FACS and IHC (P) applications and shows reactivity with Human and Mouse samples. This antibody is not suitable for Jurkat cell lysates or mouse thymus tissues in Western blot analysis.

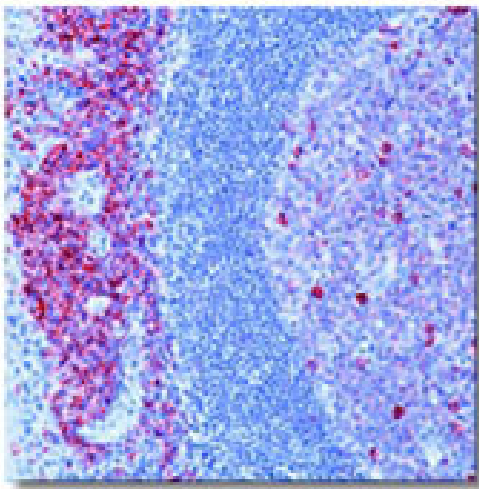
The MA5-14413 immunogen is recombinant protein encoding the extracellular domain of human CD38.

Product Images For CD38 Monoclonal Antibody (38C03 (SPC32))



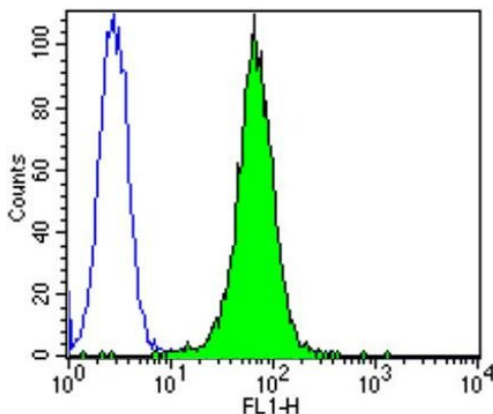
CD38 Antibody (MA5-14413) in WB

Western blot analysis of CD38 was performed by loading 25 µg of Daudi (Lane 1), Jurkat (Lane 2), and mouse thymus cell lysates (Lane 3) and a molecular weight protein ladder onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with a blocking buffer at 4°C overnight. The membrane was probed with a CD38 monoclonal antibody (Product # MA5-14413) at a dilution of 1:50 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 45 kDa in Daudi cells only.



CD38 Antibody (MA5-14413) in IHC (P)

Formalin-fixed, paraffin-embedded human tonsil stained with CD38 using peroxidase-conjugate and AEC chromogen. Note membrane staining of lymphocytes.



CD38 Antibody (MA5-14413) in Flow

Flow cytometry analysis of CD38 in Daudi cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10⁶ cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a CD38 monoclonal antibody (Product # MA5-14413) at a dilution of 1:2 for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated goat anti-mouse IgG (H+L) secondary antibody and re-suspended in PBS for FACS analysis.

Cell: Daudi
Concentration : 1/2
Theory location: Membrane

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10 References

Western Blot (1)

<p>The Biochemical journal</p> <p>Channelling of substrate promiscuity of the skeletal-muscle ADP-ribosyl cyclase isoform.</p> <p>"MA5-14413 was used in western blot to generate enzymatic data supporting the presence in skeletal muscle of an ADP-ribosyl cyclase isoform distinct from CD38"</p> <p>Authors: Bacher I,Zidar A,Kratzel M,Hohenegger M</p>	<p>Year 2004</p> <p>Species Rabbit</p> <p>Dilution 1:500</p>
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Immunohistochemistry (5)

<p>Molecular and clinical oncology</p> <p>Unusual bilateral kidney and duodenal plasmablastic lymphoma presentation in an elderly patient: A case report.</p> <p>"MA5-14413 was used in Immunohistochemistry to describe the case of a 71-year-old man who was admitted to the emergency department with a 7-day history of progressive left flank pain and tarry stool."</p> <p>Authors: Liu YC,Su YT,Huang CK,Tsai YC,Chen YC,Li PF</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:500</p>
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<p>Cell</p> <p>TBL1XR1 Mutations Drive Extranodal Lymphoma by Inducing a Pro-tumorigenic Memory Fate.</p> <p>"MA5-14413 was used in Immunohistochemistry to show that TBL1XR1 mutations skew the humoral immune response toward generating abnormal immature memory B cells (MB), while impairing plasma cell differentiation."</p> <p>Authors: Venturutti L,Teater M,Zhai A,Chadburn A,Babiker L,Kim D,Béguelin W,Lee TC,Kim Y,Chin CR,Yewdell WT, Raught B,Phillip JM,Jiang Y,Staudt LM,Green MR,Chaudhuri J,Elemento O,Farinha P,Weng AP,Nissen MD,Steidl C, Morin RD,Scott DW,Privé GG,Melnick AM</p>	<p>Year 2020</p> <p>Species Mouse</p>
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Immunohistochemistry (Paraffin) (2)

<p>Arthritis research & therapy</p> <p>Plasma cells within granulomatous inflammation display signs pointing to autoreactivity and destruction in granulomatosis with polyangiitis.</p> <p>"MA5-14413 was used in immunohistochemistry - paraffin section to describe the features of plasma cells in patients with granulomatosis with polyangiitis"</p> <p>Authors: Mueller A,Brieske C,Schinke S,Csernok E,Gross WL,Hasselbacher K,Voswinkel J,Holl-Ulrich K</p>	<p>Year 2014</p> <p>Species Human</p>
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More applications with references on thermofisher.cn

ICC/IF (2)

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