

CD10 Monoclonal Antibody (56C6)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	56C6
Conjugate	Unconjugated
Immunogen	Recombinant external domain of CD10 protein
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	tissue culture supernatant
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10983979

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1:2	-
Immunofluorescence (IF)	1:10-1:100	-
Immunohistochemistry (Paraffin) (IHC (P))	1:30-1:60	3 Publications
Western Blot (WB)	1:20-1:200	3 Publications
Immunocytochemistry (ICC)	-	2 Publications
Immunohistochemistry (IHC)	-	47 Publications

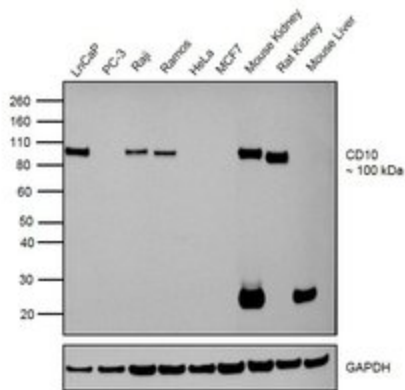
Product Specific Information

MA5-14050 targets CD10 in WB, IF, FACS and IHC (P) applications and shows reactivity with Human and Rat samples. This antibody is not recommended for LNCAP cells in Western blot applications.

The MA5-14050 immunogen is recombinant external domain of CD10 protein.

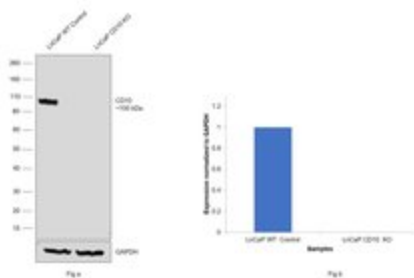
CD10 Antibody (MA5-14050)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues tested owing to their inherent genetic constitution. Relative expression of CD10 was observed in LnCaP, Raji, Ramos cell lines that express CD10, in comparison to PC-3, HeLa and MCF7 cell lines that are null for CD10 expression. Relative expression was also observed in Mouse Kidney, in comparison to Mouse Liver using Anti-CD10 Mouse Monoclonal Antibody (Product # MA5-14050) in Western Blot. Relative expression validation info.



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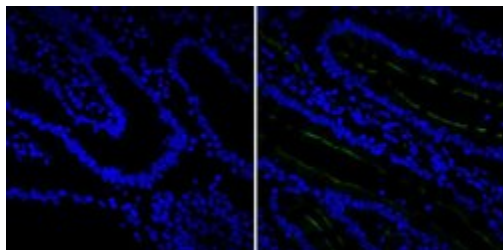
Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in CD10 KO cell line compared to control cell line using Anti-CD10 Monoclonal Antibody (56C6)(Product # MA5-14050). Knockout validation info.



Product Images For CD10 Monoclonal Antibody (56C6)

CD10 Antibody (MA5-14050) in IHC (P)

Immunofluorescent analysis of CD10/MME (green) showing staining in the membrane and cytoplasm of human small intestine tissue (right) compared to a negative control without primary antibody (left). Formalin-fixed tissue was 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. Tissue was probed with a CD10/MME monoclonal antibody (Product # MA5-14050) in 3% BSA-PBS at a dilution of 1:10 and incubated overnight at 4°C in a humidified chamber. Tissue was 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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Western Blot (3)

American journal of physiology. Lung cellular and molecular physiology

Hypoxia decreases lung neprilysin expression and increases pulmonary vascular leak.

"MA5-14050 was used in western blot to investigate the effect of hypoxia on the expression of lung neprilysin"

Authors: Carpenter TC, Stenmark KR

Species
Rat

Dilution
1:100

Year
2001

Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology

Atrial fibrillation down-regulates renal neutral endopeptidase expression and induces profibrotic pathways in the kidney.

"MA5-14050 was used in western blot to study the reduced neutral endopeptidase expression and induction of profibrotic pathways in response to atrial fibrillation"

Authors: Bukowska A, Lendeckel U, Krohn A, Keilhoff G, ten Have S, Neumann KH, Goette A

Species
Human

Dilution
1:1000

Year
2008

[View more WB references on thermofisher.com](#)

Immunohistochemistry (47)

Laboratory investigation; a journal of technical methods and pathology

Subcellular localization of the ABCG2 transporter in normal and malignant human gallbladder epithelium.

"MA5-14050 was used in immunohistochemistry to investigate the cellular distribution of ABCG2 in healthy and diseased human gallbladder epithelium"

Authors: Aust S, Obrist P, Jaeger W, Klimpfing M, Tucek G, Wrba F, Penner E, Thalhammer T

Species
Human

Dilution
1:30

Year
2004

Blood

NK-cell enteropathy: a benign NK-cell lymphoproliferative disease mimicking intestinal lymphoma: clinicopathologic features and follow-up in a unique case series.

"MA5-14050 was used in immunohistochemistry to study the clinicopathologic features of natural killer-cell enteropathy"

Authors: Mansoor A, Pittaluga S, Beck PL, Wilson WH, Ferry JA, Jaffe ES

Species
Human

Dilution
Not Cited

Year
2011

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More applications with references on thermofisher.com

IHC (P) (3) **ICC (2)**

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