

CD10 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Sf 21-derived recombinant mouse Neprilysin/CD10 Tyr52-Trp750
Form	Lyophilized
Concentration	0.2 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5% trehalose
Contains	No Preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2607390

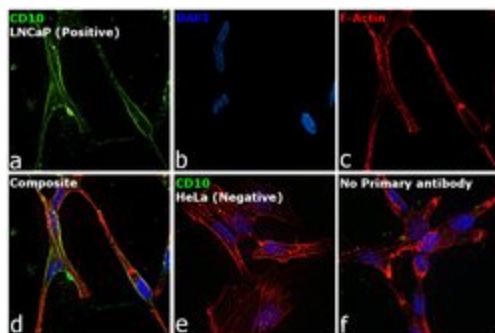
Applications	Tested Dilution	Publications
Western Blot (WB)	0.1 µg/mL	-
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	5-15 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/ml	-
ELISA (ELISA)	0.1-0.4 µg/mL (Detection), 0.2-0.8 µg/mL (Capture)	-
Immunoprecipitation (IP)	25 µg/mL	-

Product Specific Information

In sandwich ELISAs, less than 35% cross-reactivity with recombinant human (rh) Neprilysin is observed and less than 0.2% cross-reactivity with rhNeprilysin-2 is observed.

Reconstitute at 0.2 mg/mL in sterile PBS.

Advanced Verification Data

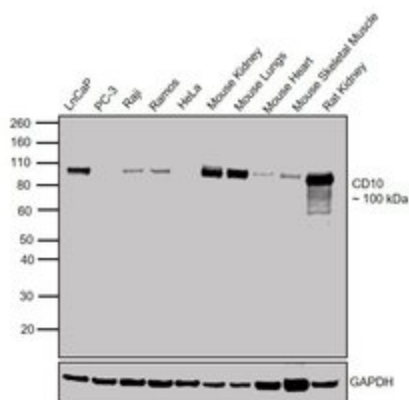


CD10 Antibody (PA5-47075)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of CD10 was observed in LNCaP cells in plasma membrane, which is a positive model for CD10 expression, in comparison to HeLa (null for CD10 expression) using Anti-CD10 Polyclonal Antibody (Product # PA5-47075) in immunofluorescence. Relative expression validation info.

CD10 Antibody (PA5-47075)

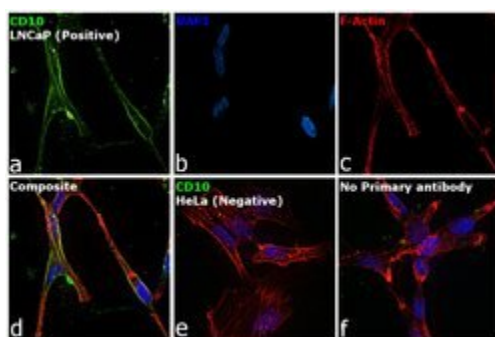
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines and tissues tested owing to their inherent genetic constitution. Relative expression of CD10 was observed in LNCaP (Lane 1), Raji (Lane 3), Ramos (Lane 4) cell lines that express CD10, in comparison to PC-3 (Lane 2) and HeLa (Lane 5) cell lines that are null for CD10 expression. Relative expression was also observed in Mouse Kidney and Mouse Lungs (Lanes 6 & 7) that express high levels of CD10 protein, in comparison to Mouse Heart and Mouse Skeletal Muscle (Lanes 8 & 9) that express extremely low levels, using Anti-CD10 Goat Polyclonal Antibody (Product # PA5-47075) in Western Blot. Relative expression validation info.



Product Images For CD10 Polyclonal Antibody

CD10 Antibody (PA5-47075) in ICC/IF

Immunofluorescence analysis of CD10 was performed using LNCaP and HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with CD10 Goat Polyclonal Antibody (Product # PA5-47075) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Rabbit anti-Goat IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 (Product # A27012) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green) in LNCaP cells. Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image of LNCaP cells, which is a positive model for CD10 expression showing a plasma membrane localization. Panel e represents the merged image of HeLa cells, that are null for CD10 protein expression. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Immunohistochemistry (2)

Nature communications

HIF-1 and HIF-2 differently regulate tumour development and inflammation of clear cell renal cell carcinoma in mice.

"PA5-47075 was used in Immunohistochemistry to show using an autochthonous ccRCC model that Hif1a is essential for tumour formation whereas Hif2a deletion has only minor effects on tumour initiation and growth."

Authors: Hoefflin R, Harlander S, Schäfer S, Metzger P, Kuo F, Schönerberger D, Adlesic M, Peighambari A, Seidel P, Chen CY, Consenza-Contreras M, Jud A, Lahrmann B, Grabe N, Heide D, Uhl FM, Chan TA, Duyster J, Zeiser R, Schell C, Heikenwalder M, Schilling O, Hakimi AA, Boerries M, Frew IJ

Species
Mouse

Dilution
1:2000

Year
2020

PloS one

Oncogenic HrasG12V expression plus knockdown of Cdkn2a using ecotropic lentiviral vectors induces high-grade endometrial stromal sarcoma.

"Published figure using CD10 polyclonal antibody (Product # PA5-47075) in Immunohistochemistry"

Authors: Brandt LP, Albers J, Hejhal T, Catalano A, Wild PJ, Frew IJ

Species
Not Applicable

Dilution
Not Cited

Year
2017

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