CDCP1 Polyclonal Antibody

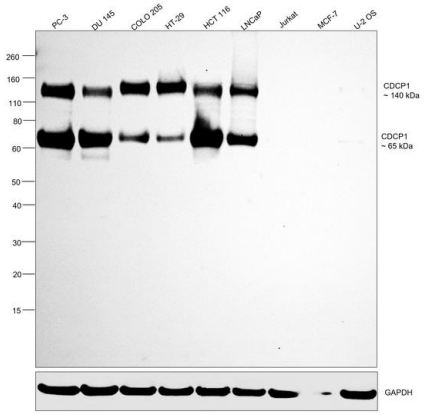
Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to amino acids near the carboxy-terminus of human CDCP1
Form	Liquid
Concentration	32 µg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10979963

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:2,000	-
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:100	1 Publication
Immunoprecipitation (IP)	1:100	-

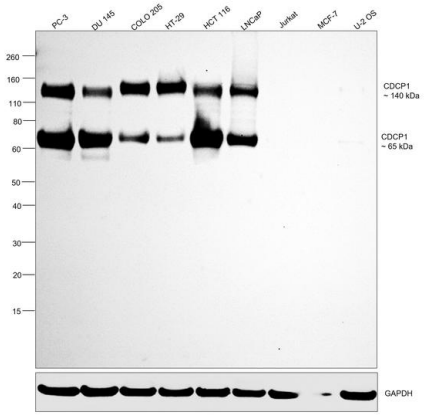
Product Specific Information

It is not recommended to aliquot this antibody.

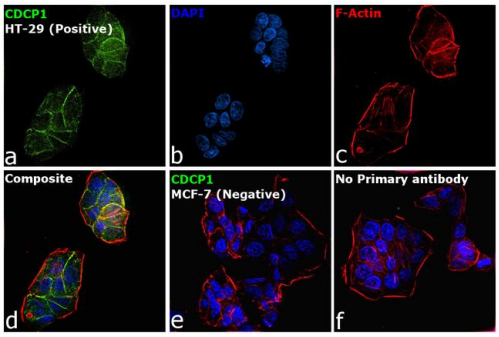
Product Images For CDCP1 Polyclonal Antibody



CDCP1 Antibody (PA5-17245) in WB
Western blot was performed using CDCP1 Polyclonal Antibody (Product # PA5-17245) and 140 kDa and 65 kDa bands corresponding to CDCP1 were observed in PC-3, DU 145, COLO 205, HT-29, HCT 116, LNCaP and not in Jurkat, MCF7 and U-2 OS cell lines tested. Whole cell extracts (30 µg lysate) of PC-3 (Lane 1), DU 145 (Lane 2), COLO 205 (Lane 3), HT-29 (Lane 4), HCT 116 (Lane 5), LNCaP (Lane 6), Jurkat (Lane 7), MCF7 (Lane 8), U-2 OS (Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX), 10 well. Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:2000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 20,000 dilution) using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Atto Ultimate Sensitivity Substrate (Product # A38556).



CDCP1 Antibody (PA5-17245)
Antibody specificity was demonstrated by detection of differential basal expression of the target across high expressing and not in the low expressing cell lines tested owing to their inherent genetic constitution. Relative expression of CDCP1 was observed in PC-3 (Lane 1), DU 145 (Lane 2), COLO 205 (Lane 3), HT-29 (Lane 4), HCT 116 (Lane 5), LNCaP (Lane 6) which are high expressing and not in Jurkat (Lane 7), MCF7 (Lane 8), U-2 OS (Lane 9), which are the low expressing cell lines, using CDCP1 Polyclonal Antibody (Product # PA5-17245) in Western Blot. {RE}



CDCP1 Antibody (PA5-17245) in ICC/IF
Immunofluorescence analysis of CDCP1 was performed using 70% confluent log phase HT-29 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with CDCP1 Polyclonal Antibody (Product # PA5-17245) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor™ Plus 488 (Product # A32790, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained withRhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing membrane localization. Panel e represents MCF-7 is reported to be low CDCP1 expressing cell line and there was no signal observed in MCF-7 as expected. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60x magnification.

View more figures on thermofisher.cn

4 References

Immunohistochemistry (2)

BMC cancer

The PDGFR/ERK1/2 pathway regulates CDCP1 expression in triple-negative breast cancer.

"Published figure using CDCP1 polyclonal antibody (Product # PA5-17245) in Immunohistochemistry"

Authors: Forte L,Turdo F,Ghirelli C,Aiello P,Casalini P,Iorio MV,D'Ippolito E,Gasparini P,Agresti R,Belmonte B,Sozzi G, Sfondrini L,Tagliabue E,Campiglio M,Bianchi F

Year
2018

Species
Human

Dilution
1:50

Oncotarget

CDCP1 is a novel marker of the most aggressive human triple-negative breast cancers.

"Published figure using CDCP1 polyclonal antibody (Product # PA5-17245) in Immunohistochemistry"

Authors: Turdo F,Bianchi F,Gasparini P,Sandri M,Sasso M,De Cecco L,Forte L,Casalini P,Aiello P,Sfondrini L,Agresti R, Carcangiu ML,Plantamura I,Sozzi G,Tagliabue E,Campiglio M

Year
2016

Species
Human

Immunohistochemistry (Paraffin) (1)

Oncotarget

CDCP1 is a novel marker of the most aggressive human triple-negative breast cancers.

"Published figure using CDCP1 polyclonal antibody (Product # PA5-17245) in Immunohistochemistry"

Authors: Turdo F,Bianchi F,Gasparini P,Sandri M,Sasso M,De Cecco L,Forte L,Casalini P,Aiello P,Sfondrini L,Agresti R, Carcangiu ML,Plantamura I,Sozzi G,Tagliabue E,Campiglio M

Year
2016

Species
Human

Immunocytochemistry (1)

American journal of physiology. Lung cellular and molecular physiology

Cub domain-containing protein 1 negatively regulates TGF- signaling and myofibroblast differentiation.

"PA5-17245 was used in Immunocytochemistry-immunoflourescence to show that loss of CDCP1 contributes to fibroblast to myofibroblast differentiation via a potential negative feedback loop between CDCP1 expression and TGF-1 stimulation."

Authors: Noskoviová N,Heinzelmann K,Burgstaller G,Behr J,Eickelberg O

Year
2018

Species
Human

Dilution
1:100