abcam

ab252947

Anti-CDCP1 antibody [EPR23162-102]

Anti-CDCP1 antibody [EPR23162-102] (ab252947) is a rabbit monoclonal antibody detecting CDCP1 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human**.

- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23162-102
Purification technique	Affinity purification Protein A
Concentration	0.56 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30

Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/200
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information CDCP1

Function	May be involved in cell adhesion and cell matrix association. May play a role in the regulation of anchorage versus migration or proliferation versus differentiation via its phosphorylation. May be a novel marker for leukemia diagnosis and for immature hematopoietic stem cell subsets. Belongs to the tetraspanin web involved in tumor progression and metastasis.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-CDCP1 antibody [EPR23162-102] (ab252947) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human samples.

What is the molecular weight of CDCP1?
Anti-CDCP1 [EPR23162-102] (ab252947) specifically detects a band for CDCP1 (UniProt: Q9H5V8) at a molecular weight of 92kDa.

Other related products
We have a range of other formats of antibody clone [EPR23162-102] also available for your convenience: ab252947, Carrier free - ab264472

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

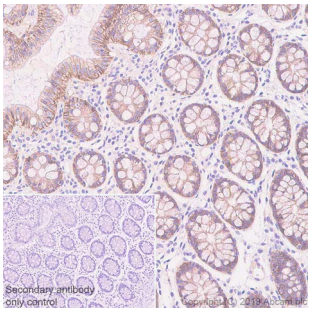
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

8 product images

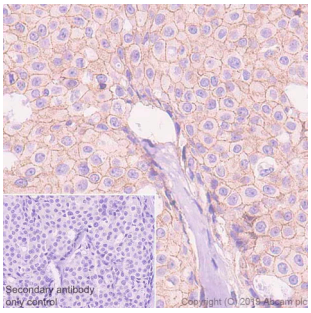


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

CDCP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CDCP1 antibody

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling CDCP1 with ab252947 at 1/200 dilution (2.8 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in human colon (PMID: 12660814). The section was incubated with ab252947 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

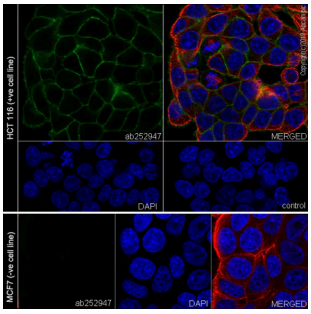


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

CDCP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CDCP1 antibody

Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue labeling CDCP1 with ab252947 at 1/200 dilution (2.8 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Mainly membranous staining in tumor cells of human breast cancer (PMID: 16823897). The section was incubated with ab252947 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

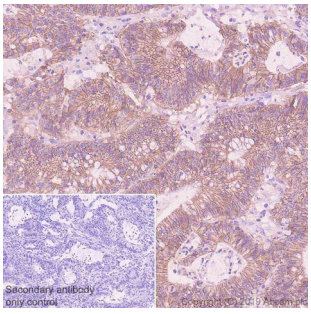
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunocytochemistry/ Immunofluorescence - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

CDCP1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CDCP1 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HCT 116 (Human colorectal carcinoma epithelial cell) MCF7 (Human breast adenocarcinoma epithelial cell) cells labelling CDCP1 with ab252947 at 1/50 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing membranous staining in HCT 116 cell line. **Negative control:** MCF7 cell line (PMID: 24055141). ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).
Secondary antibody only control: Secondary antibody is ab150077 AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

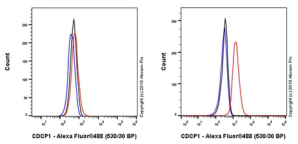


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

CDCP1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CDCP1 antibody

Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue labeling CDCP1 with ab252947 at 1/200 dilution (2.8 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Mainly membranous staining in tumor cells of human colon cancer (PMID: 12660814). The section was incubated with ab252947 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

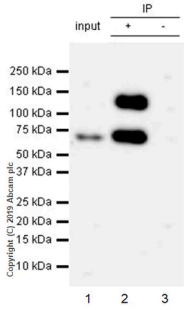
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

CDCP1 Flow Cytometry (Intracellular) staining using rabbit Anti-CDCP1 antibody

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized MCF7 (Human breast adenocarcinoma epithelial cell, Left) / HCT 116 (Human colorectal carcinoma epithelial cell, Right) cells labeling CDCP1 with ab252947 at 1/500 dilution (Red) compared with a Isotype control details (ab172730) (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Secondary antibody details (ab150077), at 1/2000 dilution was used as the secondary antibody.
Negative control: MCF7 cell line (PMID: 24055141).



Immunoprecipitation - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

CDCP1 was immunoprecipitated from 0.35 mg PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate with ab252947 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab252947 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate 10ug

Lane 2: ab252947 IP in PC-3 whole cell lysate

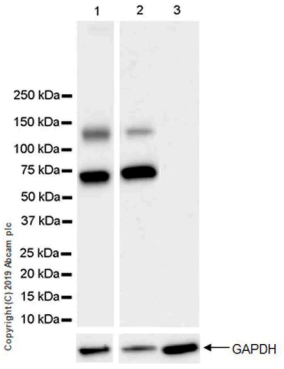
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab252947 in PC-3 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 min

All lanes:
Immunoprecipitation - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

Predicted band size: 92 kDa



Western blot - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

Blocking and dilution buffer: 5% NFDM/TBST.
Exposure times.

Lane 1:48 seconds;
Lanes 2-3:3 minutes.

The expression profile observed is consistent with what has been described in the literature (PMID: 20551327). Post-translational processing generates a C-terminal 70-kDa fragment from the full-length 135 kDa CDCP1.

Negative control: MCF7 (PMID: 20551327, 24055141).

All lanes:
Western blot - Anti-CDCP1 antibody [EPR23162-102] (ab252947) at 1/1000 dilution

Lane 1:
PC-3 (human prostate adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

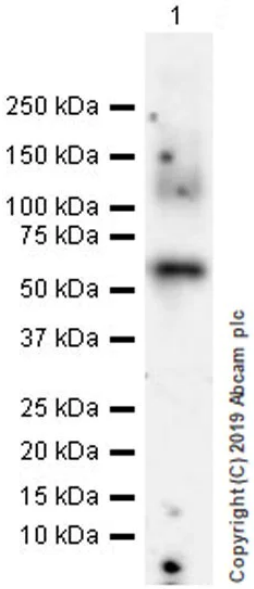
Lane 3:
MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 92 kDa

Observed band size: 135 kDa, 70 kDa



Western blot - Anti-CDCP1 antibody [EPR23162-102] (ab252947)

Blocking and dilution buffer: 5% NFDM/TBST.
Exposure time: 3 minutes.

The expression profile observed is consistent with what has been described in the literature (PMID: 20551327). Post-translational processing generates a C-terminal 70-kDa fragment from the full-length 135 kDa CDCP1.

All lanes:
Western blot - Anti-CDCP1 antibody [EPR23162-102] (ab252947) at 1/1000 dilution

All lanes:
Human colon cancer lysate at 20 µg

Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 92 kDa

Observed band size: 135 kDa, 70 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.