abcam

Product datasheet

Anti-CDCP1 antibody ab1377

16 References 2 Images

Overview

Product name	Anti-CDCP1 antibody
Description	Goat polyclonal to CDCP1
Host species	Goat
Specificity	This antibody is expected to recognize isoform 1 (NP_073753.3) only. Approx 90kDa band observed in Human Colon lysates (calculated MW of 92.3kDa according to NP_073753.3). Recommended concentration: 1-3µg/ml. An additional band of unknown identity was also consistently observed at 200kDa. This band was successfully blocked by incubation with the immunising peptide.
Tested applications	**Suitable for:** IHC-P, IP, ICC/IF, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human CDCP1 aa 800 to the C-terminus (C terminal). Database link: **NP_073753.3** Run BLAST with Run BLAST with
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab1377 in the following tested applications.

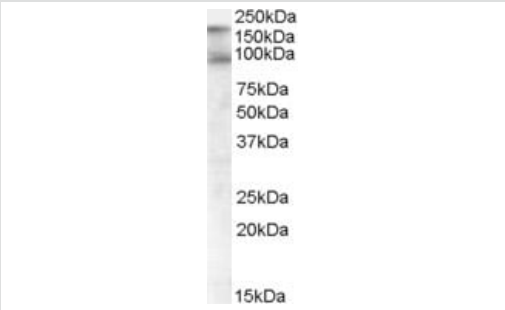
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. PubMed: 16823897
IP		Use at an assay dependent concentration. PubMed: 17785447
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 90 kDa (predicted molecular weight: 92 kDa). 1 hour primary incubation is recommended for this product.

Target

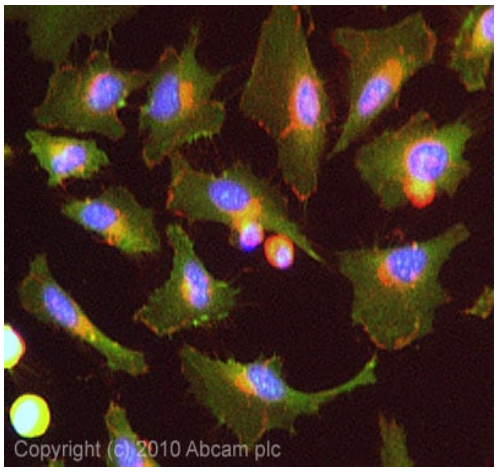
Function	May be involved in cell adhesion and cell matrix association. May play a role in the regulation of anchorage versus migration or proliferation versus differentiation via its phosphorylation. May be a novel marker for leukemia diagnosis and for immature hematopoietic stem cell subsets. Belongs to the tetraspanin web involved in tumor progression and metastasis.
Tissue specificity	Highly expressed in mitotic cells with low expression during interphase. Detected at highest levels in skeletal muscle and colon with lower levels in kidney, small intestine, placenta and lung. Up-regulated in a number of human tumor cell lines, as well as in colorectal cancer, breast carcinoma and lung cancer. Also expressed in cells with phenotypes reminiscent of mesenchymal stem cells and neural stem cells.
Sequence similarities	Contains 1 CUB domain.
Post-translational modifications	Phosphorylated on tyrosine by kinases of the SRC family such as SRC and YES as well as by the protein kinase C gamma/PRKCG. Dephosphorylated by phosphotyrosine phosphatases. Also phosphorylated by suramin, a heparin analog. Tyrosine phosphorylated in response to dissociation of integrin alpha-6 beta-4 from laminin-5. N-glycosylated. A soluble form may also be produced by proteolytic cleavage at the cell surface (shedding). Another peptide of 80 kDa (p80) is present in cultured keratinocytes probably due to tryptic cleavage at an unidentified site on its N-terminal side. Converted to p80 by plasmin, a trypsin-like protease.
Cellular localization	Secreted and Cell membrane. Shedding may also lead to a soluble peptide.

Images



Western blot - Anti-CDCP1 antibody (ab1377)

ab1377 (1 µg/ml) staining CDCP1 human colon whole cell lysate (35 µg) in RIPA buffer. Incubation was for 1 hour and detection was by chemiluminescence.



Immunocytochemistry/ Immunofluorescence - Anti-CDCP1 antibody (ab1377)

ICC/IF image of ab1377 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal donkey serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab1377, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 donkey anti-goat IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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