Product datasheet

Anti-CDCP1 Antibody

Catalog Number: *PB0978*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-CDCP1 Antibody
Gene Name	CDCP1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human CDCP1 recombinant protein (Position: R582-T667). Human CDCP1 shares 84.5% amino acid (aa) sequence identity with mouse CDCP1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	93-130 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

CUB domain-containing protein 1 (CDCP1) is a protein that in humans is encoded by the CDCP1 gene. It has also been designated as CD318 (cluster of differentiation 318) and Trask (Transmembrane and associated with src kinases). CDCP1/Trask is a 140 kD transmembrane glycoprotein with a large extracellular domain (ECD) containing two CUB domains, and a smaller intracellular domain (ICD) containing five tyrosines. The tyrosine phosphorylation of Trask is tightly regulated and reciprocally linked with the state of cell adhesion. The tyrosine phosphorylation of CDCP1 in cultured cells occurs when cells are induced to detach by trypsin or EDTA, or seen spontaneously during mitotic detachment. The overexpression of CDCP1 leads to the loss of cell adhesion and a detached phenotype. CDCP1 is widely expressed in human epithelial tissues, but its phosphorylation is only seen in mitotically detached or shedding cells, consistent with its role in the negative regulation of cell adhesion.

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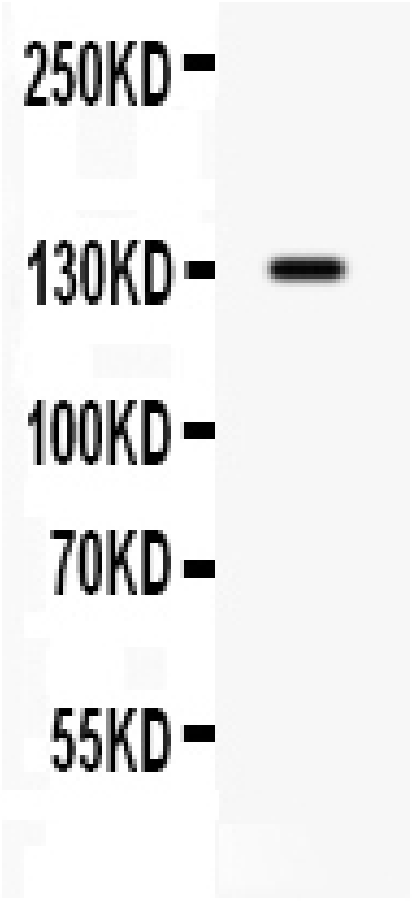
Reference

Anti-CDCP1 Antibody 被引用在3文献中。

Selected Validation Data



Western blot analysis of CDCP1 using anti-CDCP1 antibody (PB0978). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human SW620 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CDCP1 antigen affinity purified polyclonal antibody (PB0978) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CDCP1 at approximately 93-130 kDa. The expected band size for CDCP1 is at 93 kDa.

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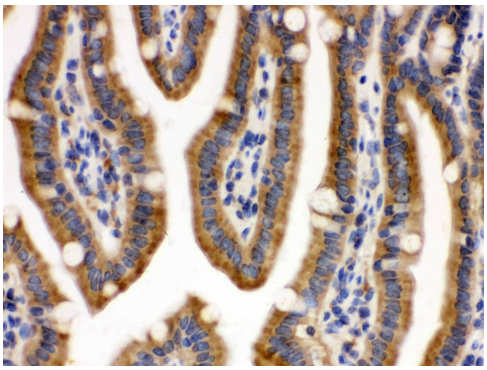
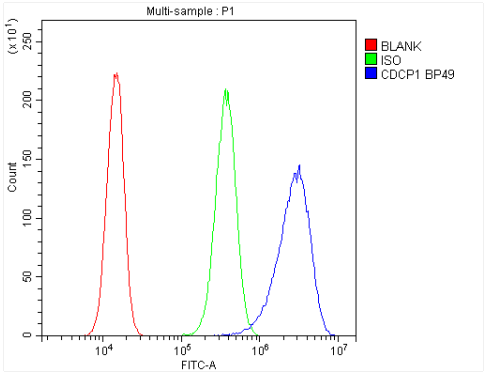


IHC analysis of CDCP1 using anti-CDCP1 antibody (PB0978).
CDCP1 was detected in a paraffin-embedded section of mouse intestine tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CDCP1 Antibody (PB0978) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of PC-3 cells using anti-CDCP1 antibody (PB0978).
Overlay histogram showing PC-3 cells stained with PB0978 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CDCP1 Antibody (PB0978) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.