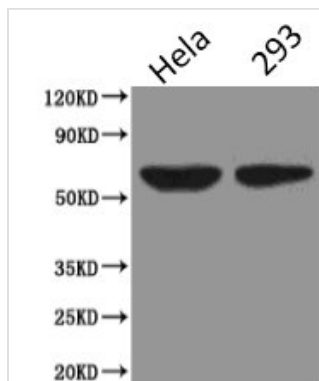




PODXL Monoclonal Antibody

Product Code	CSB-MA134471A0m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O00592
Immunogen	Recombinant Human PODXL protein
Raised In	Mouse
Species Reactivity	Human, Mouse, Rat
Specificity	Specific for PODXL denatured and native forms
Tested Applications	ELISA, WB, IHC, IP, IF, FC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500, IF:1:50-1:200, IP:1:200-1:2000
Relevance	Involved in the regulation of both adhesion and cell morphology and cancer progression. Function as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive molecule, enhancing the adherence of cells to immobilized ligands, increasing the rate of migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane subdomain to set up initial epithelial polarization and the apical lumen formation during renal tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in cancer cells.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%, Protein G purified
Isotype	IgG2b
Clonality	Monoclonal
Alias	Podocalyxin, GCTM-2 antigen, Gp200, Podocalyxin-like protein 1, PC, PCLP-1, PODXL, PCLP, PCLP1
Product Type	Monoclonal Antibody
Immunogen Species	Homo sapiens (Human)
Clone No.	4D2G7
Image	



Western Blot

Positive WB detected in: HeLa whole cell lysate, HEK293 whole cell lysate

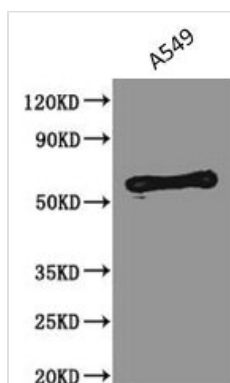
All lanes: PODXL antibody at 2.5μg/ml

Secondary

Goat polyclonal to Mouse IgG at 1/5000 dilution

Predicted band size: 59, 56 kDa

Observed band size: 59 kDa



Western Blot

Positive WB detected in: A549 whole cell lysate

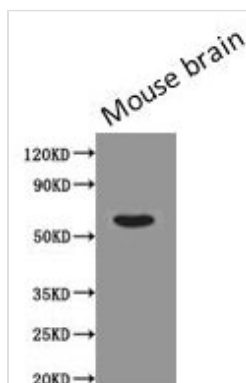
All lanes: PODXL antibody at 2.5μg/ml

Secondary

Goat polyclonal to Mouse IgG at 1/5000 dilution

Predicted band size: 59, 56 kDa

Observed band size: 59 kDa



Western Blot

Positive WB detected in: Mouse brain tissue

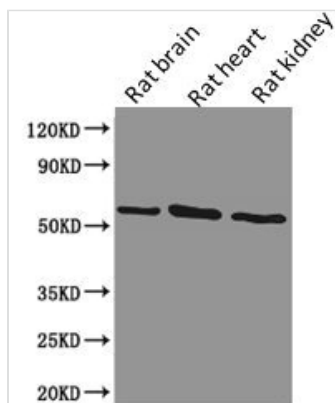
All lanes: PODXL antibody at 0.43μg/ml

Secondary

Goat polyclonal to Mouse IgG at 1/5000 dilution

Predicted band size: 59, 56 kDa

Observed band size: 59 kDa



Western Blot

Positive WB detected in: Rat brain tissue, Rat heart tissue, Rat kidney tissue

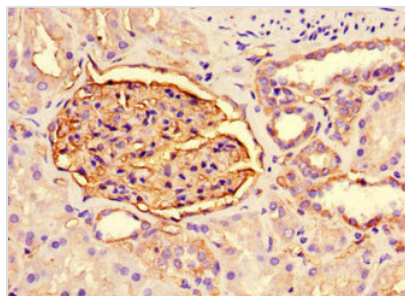
All lanes: PODXL antibody at 1.28μg/ml

Secondary

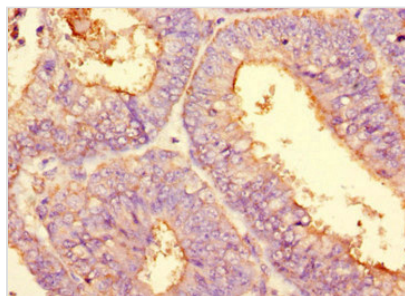
Goat polyclonal to Mouse IgG at 1/5000 dilution

Predicted band size: 59, 56 kDa

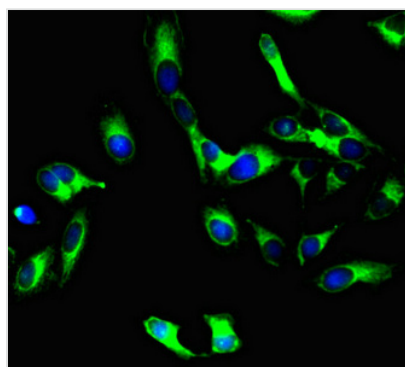
Observed band size: 59 kDa



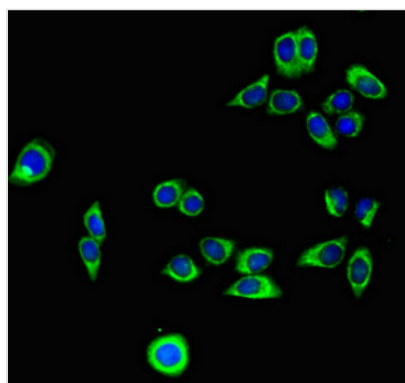
Immunohistochemistry of paraffin-embedded human kidney tissue using CSB-MA134471A0m at dilution of 1:200



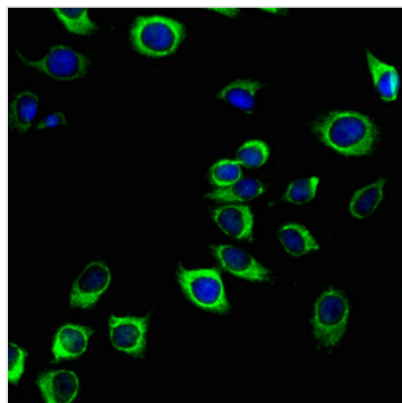
Immunohistochemistry of paraffin-embedded human melanoma using CSB-MA134471A0m at dilution of 1:200



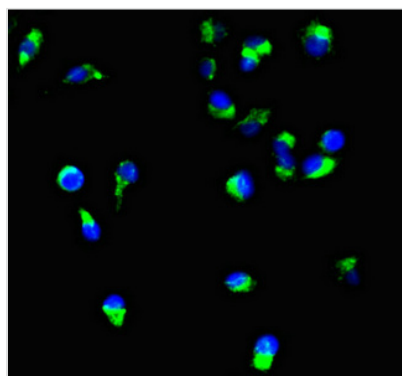
Immunofluorescent analysis of Hela cells using CSB-MA134471A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



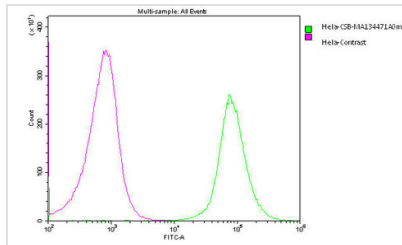
Immunofluorescent analysis of PC-3 cells using CSB-MA134471A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



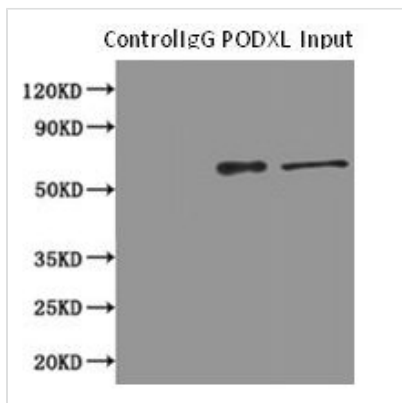
Immunofluorescent analysis of A549 cells using CSB-MA134471A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of Ntera-2 cells using CSB-MA134471A0m at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay histogram showing HeLa cells stained with CSB-MA134471A0m (red line). The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (10 μ g/1*10⁶cells) for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was mouse IGg2b (10 μ g/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.



Immunoprecipitating PODXL in HEK293 whole cell lysate
 Lane 1: Mouse control IgG (1 μ g) instead of CSB-MA134471A0m in HEK293 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
 Lane 2: CSB-MA134471A0m (8 μ g) + HEK293 whole cell lysate (500 μ g)
 Lane 3: HEK293 whole cell lysate (10 μ g)