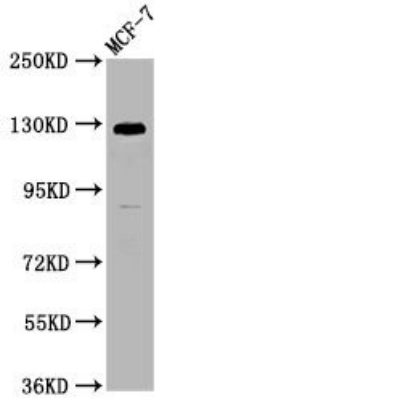
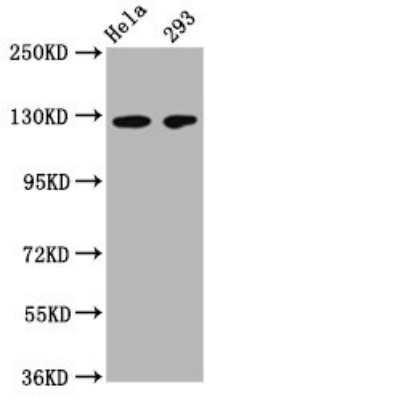
CD146 Monoclonal Antibody

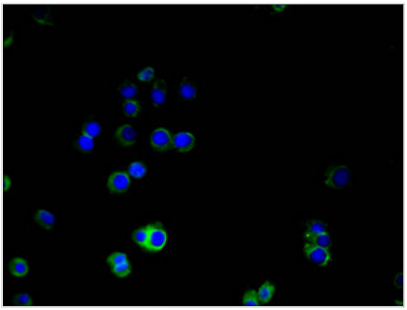
Product Code	CSB-MA013563A0m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P43121
Immunogen	Recombinant Human Cell surface glycoprotein MUC18 protein (50-646AA)
Raised In	Mouse
Species Reactivity	Human
Tested Applications	ELISA, WB, IF, FC; Recommended dilution: WB:1:500-1:2000, IF:1:50-1:200
Relevance	Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogeneous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration.
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	IgG2a
Clonality	Monoclonal
Alias	Cell surface glycoprotein MUC18 (Cell surface glycoprotein P1H12) (Melanoma cell adhesion molecule) (Melanoma-associated antigen A32) (Melanoma-associated antigen MUC18) (S-endo 1 endothelial-associated antigen) (CD antigen CD146), MCAM, MUC18
Product Type	Monoclonal Antibody
Immunogen Species	Homo sapiens (Human)
Clone No.	4D10C7
Image	



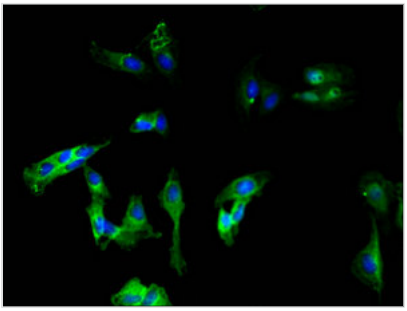
Western Blot
Positive WB detected in: MCF-7 whole cell lysate
All lanes: CD146 antibody at 1:1250
Secondary
Goat polyclonal to Mouse IgG at 1/50000 dilution
Predicted band size: 72, 58 kDa
Observed band size: 120 kDa



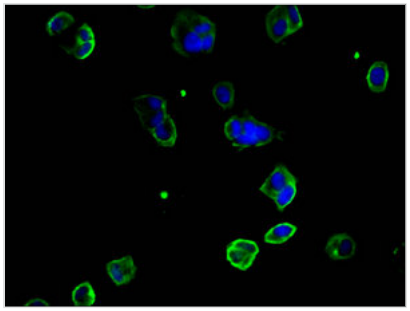
Western Blot
Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate
All lanes: CD146 antibody at 1:500
Secondary
Goat polyclonal to Mouse IgG at 1/50000 dilution
Predicted band size: 72, 58 kDa
Observed band size: 120 kDa



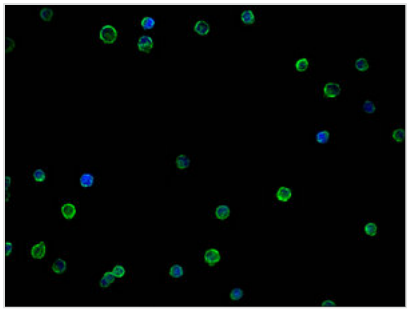
Immunofluorescence staining of A375 cells with CSB-MA013563A0m at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



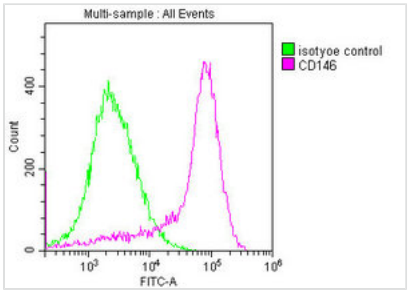
Immunofluorescence staining of Hela cells with CSB-MA013563A0m at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescence staining of MCF-7 cells with CSB-MA013563A0m at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescence staining of THP-1 cells with CSB-MA013563A0m at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay histogram showing MCF-7 cells stained with CSB-MA013563A0m (red line) at 1:400. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody 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 used under the same conditions. Acquisition of >10,000 events was performed.

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.