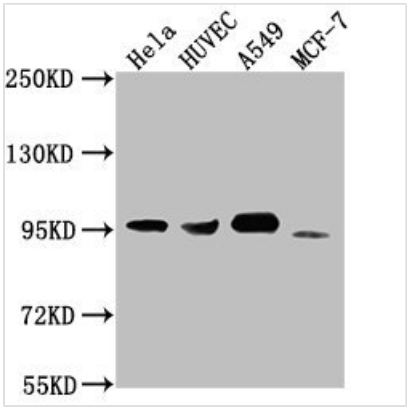
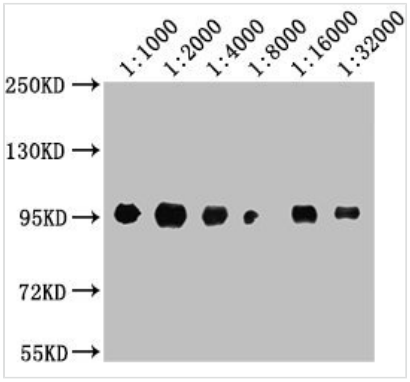
# CD44 Monoclonal Antibody

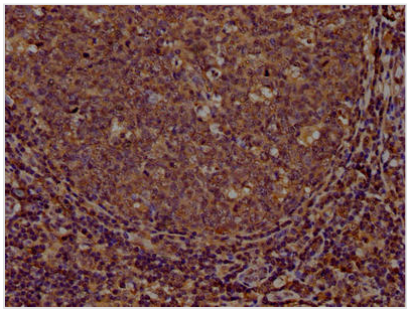
| | |
|---|---|
| **Product Code** | CSB-MA004938A0m |
| **Storage** | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| **Uniprot No.** | P16070 |
| **Immunogen** | Recombinant Human CD44 antigen protein (21-220AA) |
| **Raised In** | Mouse |
| **Species Reactivity** | Human |
| **Tested Applications** | ELISA, WB, IHC, IF, FC; Recommended dilution: WB:1:1000-1:40000, IHC:1:50-1:200, IF:1:50-1:200 |
| **Relevance** | Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events. Receptor for LGALS9; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (By similarity). |
| **Form** | Liquid |
| **Conjugate** | Non-conjugated |
| **Storage Buffer** | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4 |
| **Purification Method** | >95%, Protein G purified |
| **Isotype** | IgG1, Igk |
| **Clonality** | Monoclonal |
| **Alias** | CD44 antigen, CDw44, Epican, Extracellular matrix receptor III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I, CD44, CD44, LHR, MDU2, MDU3, MIC4 |
| **Product Type** | Monoclonal Antibody |
| **Immunogen Species** | Homo sapiens (Human) |
| **Gene Names** | CD44 |
| **Clone No.** | 6G2D2 |
| **Image** | |



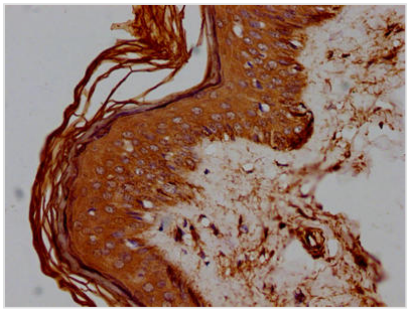

Western Blot
Positive WB detected in: Hela whole cell lysate, HUVEC whole cell lysate, A549 whole cell lysate, MCF-7 whole cell lysate
All lanes: CD44 antibody at 1:1500
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 82, 4, 78, 77, 81, 79, 75, 54,47, 40, 44, 33, 74, 76, 38, 16 kDa
Observed band size: 95 kDa



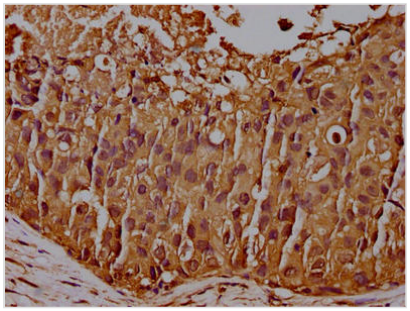

Western Blot
Positive WB detected in: A549 whole cell lysate
All lanes: CD44 antibody at 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 82, 4, 78, 77, 81, 79, 75, 54,47, 40, 44, 33, 74, 76, 38, 16 kDa
Observed band size: 95 kDa



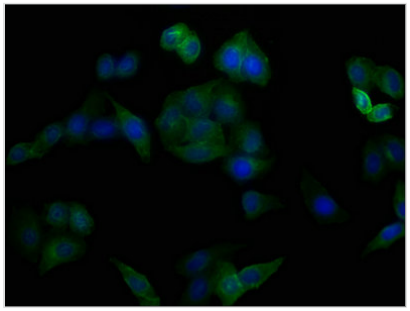
IHC image of CSB-MA004938A0m diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



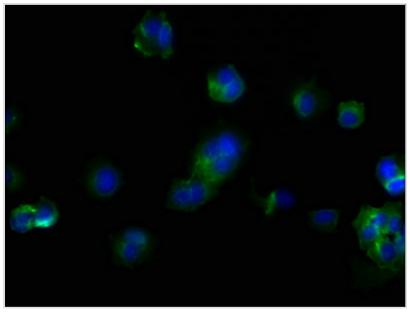
IHC image of CSB-MA004938A0m diluted at 1:100 and staining in paraffin-embedded human skin tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



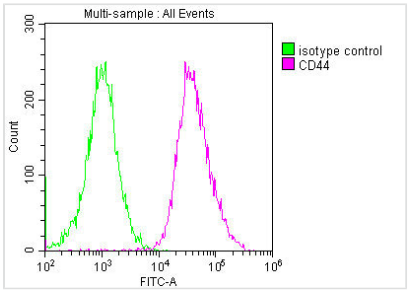
IHC image of CSB-MA004938A0m diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of Hela cells with CSB-MA004938A0m 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-MA004938A0m 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 Hela cells stained with CSB-MA004938A0m (red line) at 1:200. 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.