

Anti-CD44 Antibody (6C555)

Product Details

Ig Type:	IgG1, Igk
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6C555
Purification:	Protein G purified

Applications

1. 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

2. 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

3. IHC image of TMAH-00198 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.

4. IHC image of TMAH-00198 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.

5. IHC image of TMAH-00198 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.

6. Immunofluorescence staining of Hela cells with TMAH-00198 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-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

7. Immunofluorescence staining of MCF-7 cells with TMAH-00198 at 1:100, counter-stained with

Verified Activity:

A DRUG SCREENING EXPERT

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-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

8. Overlay histogram showing Hela cells stained with TMAH-00198 (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.

Application: ELISA, WB, IHC, IF, FCM

Properties

Purity: >95%

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human CD44 antigen Protein (21-220AA)

Antigen Species: Human

Gene ID: 960

Uniprot ID: P16070

Synonyms: MDU2;MIC4;ECMR-III;MC56;LHR;CDW44;MDU3;CD44 molecule (Indian blood group);IN;Pgp1;CSPG8;HCELL;HUTCH-I

Biology Area: Immunology

Research Background

Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases. Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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