

Anti-CD44 Antibody (9N354)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9N354
Purification:	Affinity-chromatography

Applications

1. Western Blot

-Positive WB detected in: A549 whole cell lysate, MCF7 whole cell lysate, HepG2 whole cell lysate

-All lanes: CD44 antibody at 1:1000

-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution

-Predicted band size: 81 kDa

-Observed band size: 81 kDa

2. IHC image of TMAH-00200 diluted at 1:50 and staining in paraffin-embedded human rectal cancer performed on a Leica Bond™ 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 Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.51% DAB.

Verified Activity:

3. IHC image of TMAH-00200 diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ 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 Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.51% DAB.

4. Immunofluorescence staining of Hela with TMAH-00200 at 1:25, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 515-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

5. Overlay Peak curve showing Hela cells surface stained with TMAH-00200 (red line) at 1:50. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

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Application: ELISA,FCM,IF,IHC,WB

Recommended WB:1:500-1:2000; IHC:1:50-1:200; IF:1:50-1:200; FCM:1:50-1:200.

Properties

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: A synthetic peptide: Human CD44

Antigen Species: Human

Gene ID: 960

Uniprot ID: P16070

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

Biology Area: Cancer, Immunology, Stem cells

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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