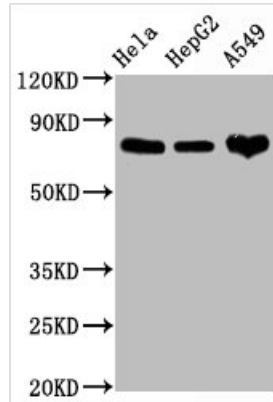




CD44 Recombinant Monoclonal Antibody

| | |
|----------------------------|---|
| Product Code | CSB-RA004938A0HU |
| Abbreviation | CD44 antigen |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P16070 |
| Immunogen | A synthesized peptide |
| Species Reactivity | Human |
| Tested Applications | ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500 |
| 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 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| 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 |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Immunology |
| Gene Names | CD44 |
| Clone No. | 4B7 |
| Image | |



Western Blot

Positive WB detected in HeLa whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate

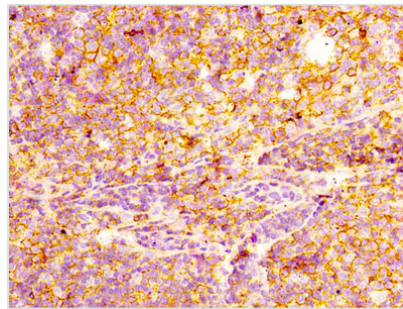
All lanes CD44 antibody at 1.25μg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 82 KDa

Observed band size: 82 KDa



IHC image of CSB-RA004938A0HU 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.

Description

The anti-CD44 antibody is a CD44-specific recombinant monoclonal antibody. This CD44 antibody was extracted from the tissue culture supernatant (TCS), which was used to develop cell lines with human CD44 monoclonal antibody gene-vectors. It was purified using affinity chromatography. It's a rabbit IgG. It is also reactive with human samples for ELISA, WB, and IHC testing.

Because of its diverse structure and distribution in bodily tissues, CD44 has a wide range of functions, including cellular adhesion, hyaluronate degradation, lymphocyte activation, lymph node homing, myelopoiesis, lymphopoiesis, angiogenesis, and cytokine release. In many types of malignancies, CD44 has been chosen as a surrogate marker for cancer stem cells (CSCs). CD44 promotes tumor invasion and metastasis by assisting tumor cells in adherence to endothelium and fibronectin-rich matrices.