

## Mouse CD44/HCAM Antibody | anti-CD44 antibody

CD44/HCAM Std. (Cancer Stem Cell Marker)

| CATALOG # | HOST  | REACTIVITY                  | APPLICATIONS                                                                                               |
|-----------|-------|-----------------------------|------------------------------------------------------------------------------------------------------------|
| AAA215306 | Mouse | Human, Baboon, Green Monkey | Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, Western Blot, Functional Assay |

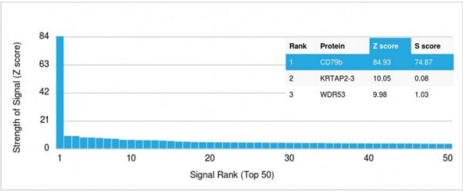
### PRODUCT SYNONYMS

CD44/HCAM; CD44/HCAM Std. (Cancer Stem Cell Marker); LHR; BA-1; chondroitin sulfate proteoglycan 8 (CSPG8); Epican; Extracellular Matrix Receptor III (ECM III); GP90 Lymphocyte Homing Adhesion Receptor; HCAM; HCELL; hematopoietic cell E- and L-selectin ligand; Heparan Sulfate Proteoglycan; Hermes Antigen; HAS; HUTCH I; Hyaluronate Receptor; Indian blood group; Inlu Related p80 Glycoprotein; Ly 24; MDU2; MDU3; MIC4; MUTCH I; Phagocytic Glycoprotein 1 (PGP-1); anti-CD44 antibody

### PRODUCT SPECIFICATIONS

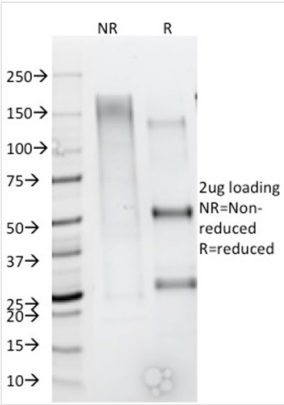
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity                                     | Human, Baboon, Green Monkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                        | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clone Number                                   | rHCAM/918                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                    | Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leucocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin. This MAb selectively interferes with lymphocyte binding to lymph node, mucosal and synovial endothelium. The CD44 family of glycoproteins exists in a number of variant isoforms, the most common being the standard 85-95kDa or hematopoietic variant (CD44s). Higher molecular weight isoforms are described in epithelial cells (CD44v), which are believed to function in intercellular adhesion and stromal binding. CD44 immunostaining is commonly used for the discrimination of urothelial transitional cell carcinoma in-situ from non-neoplastic changes in the urothelium. |
| Purity/Purification                            | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                    | 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Length                                | 742                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-CD44 antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), WB (Western Blot), FA (Functional Assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Positive Control                               | HeLa cells (FACS). HeLa cell lysate (WB). Paracortex in tonsil or lymph node (IHC).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen                                      | Recombinant full-length human CD44 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cellular Localization                          | Cell Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hu-chromosome Location                         | 11p13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antibody Type                                  | Recombinant Mouse Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                        | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

IMAGES



SDS-PAGE

SDS-PAGE Analysis Purified CD44 Recombinant Mouse Monoclonal Antibody (rHCAM/918). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Cervix stained with CD44 Recombinant Mouse Monoclonal Antibody (rHCAM/918).

ADDITIONAL INFORMATION

|            |                                                                                 |
|------------|---------------------------------------------------------------------------------|
| References | Schlossman SF, et. al. Leucocyte Typing V, p1713-1719, Oxford Univ. Press, 1995 |
|------------|---------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| NCBI GI #                        | 48255935                                                                      |
| NCBI GeneID                      | 960                                                                           |
| NCBI Accession #                 | NP_000601.3                                                                   |
| NCBI GenBank Nucleotide #        | NP_000601.3                                                                   |
| UniProt Accession #              | P16070                                                                        |
| Molecular Weight                 | 80-95kDa                                                                      |
| NCBI Official Full Name          | CD44 antigen isoform 1                                                        |
| NCBI Official Synonym Full Names | CD44 molecule (Indian blood group)                                            |
| NCBI Official Symbol             | CD44                                                                          |
| NCBI Official Synonym Symbols    | IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL; HUTCH-I; ECMR-III |
| NCBI Protein Information         | CD44 antigen                                                                  |
| UniProt Protein Name             | CD44 antigen                                                                  |
| UniProt Gene Name                | CD44                                                                          |
| UniProt Synonym Gene Names       | LHR; MDU2; MDU3; MIC4; ECMR-III; PGP-1; PGP-I                                 |
| UniProt Entry Name               | CD44_HUMAN                                                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/mouse-baboon-human-monkey-antibody/cd44-hcam/215306>