

## Anti-CD44 [MF1-16-11] Standard Size Ab02484-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** MF1-16-11

**Alternative Name(s) of Target:** 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

**UniProt Accession Number of Target Protein:** P16070

**Published Application(s):** functional assay, therapeutic, FC

**Published Species Reactivity:** Human

**Immunogen:** The original mouse antibody was raised by immunizing C57BL/6 mice with soluble CD44vRA. CD44vRA is a form of CD44, containing an extra alanine, derived from rheumatoid arthritis patients.

**Specificity:** This antibody is specific for CD44vRA, which is a CD44 derived from rheumatoid arthritis patients. CD44vRA contains an extra alanine. At higher concentration it will also bind to other isoforms of CD44. CD44 is 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.

**Application Notes:** The mouse version of this antibody was administered to arthritic mice to reduce joint inflammation. It also induced apoptosis above the spontaneous level in the spleen of the mice (Golan et al, 2007; pmid:17383158). To test the ability of this antibody to bind to CD44vRA, flow cytometry was performed on Namalwa cells expressing different isoforms of CD44 (US2011207678). Flowcytometry was performed with the mouse version of this antibody on synovial fluid cells and PBLs. The antibodies bound to the synovial fluid cells but not the PBLs from the same patient (Golan et al, 2007; pmid:17383158).

**Antibody First Published in:** Golan et al. Expression of extra trinucleotide in CD44 variant of rheumatoid arthritis patients allows generation of disease-specific monoclonal antibody J Autoimmun. Mar-May 2007;28(2-3):99-113. [PMID:17383158](#)

**Note on publication:** Describes the generation of monoclonal antibodies (mAbs) that exclusively bind, at concentrations ranging from 2 to 100 microg/ml, to a modified CD44 variant (designated CD44vRA) expressed on synovial fluid cells from joints of rheumatoid arthritis (RA) patients.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.