

**AM50194PU-S****Monoclonal Antibody to CD44 - Purified****Alternate names:**

CDw44, ECMR-III, Epican, Extracellular matrix receptor III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, LHR, MDU2, MDU3, MIC4, PGP-1, Phagocytic glycoprotein 1

**Quantity:**

0.1 mg

**Concentration:**

0.2 mg/ml

**Background:**

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.

**Uniprot ID:**

[P16070](#)

**NCBI:**

[NP\\_000601.3](#)

**GeneID:**

[960](#)

**Host / Isotype:**

Mouse / IgG2a

**Recommended Isotype**

AM03096PU-N

**Controls:****Clone:**

SPM544

**Immunogen:**

Stimulated human leukocytes.

**Genename:** CD44

**Format:**

**State:** Liquid purified IgG fraction from Bioreactor Concentrate

**Purification:** Protein A/G Chromatography

**Buffer System:** 10mM PBS

**Preservatives:** 0.05% Sodium Azide

**Stabilizers:** 0.05% BSA

**Applications:**

**ELISA:** Use BSA free Antibody for coating.

**Flow Cytometry:** 0.5-1 µg/million cells.

**Immunofluorescence:** 0.5-1 µg/ml.

**Western Blotting:** 0.5-1 µg/ml.

**Immunoprecipitation:** 0.5-1 µg/500 µg protein lysate.

**Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections:** 0.5-1 µ/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

**Positive Control:** HeLa cells or paracortex in tonsil or lymph node.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:**

80-95kDa

**Specificity:** Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes. Its epitope is resistant to digestion by trypsin and chymotrypsin.

**Cellular Localization:** Cell surface.

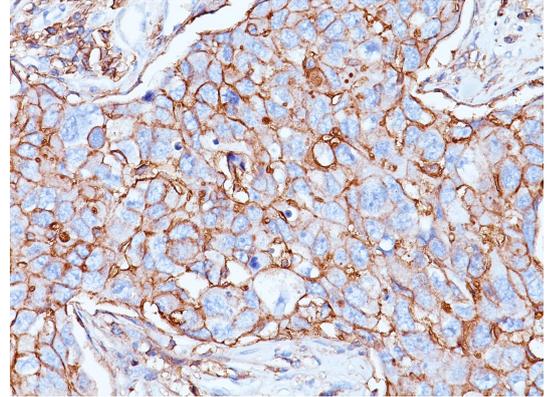
**Species:** Human, Baboon, and Green Monkey.

Other species not tested.

**Storage:** Store undiluted at 2-8°C.  
Shelf life: one year from despatch.

**General Readings:** 1. Schlossman SF, et. al. Leucocyte Typing V, p1713-1719, Oxford Univ. Press, 1995.

**Pictures:** Formalin-Paraffin Human breast ca stained with CD44 Antibody Cat.-No AM50194PU (Clone SPM544).



Formalin-Paraffin Human tonsil stained with CD44 Antibody Cat.-No AM50194PU (Clone SPM544).

