

## Product datasheet for **AM03178PU-N**

### CD44 (21-145) Mouse Monoclonal Antibody [Clone ID: 5C10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	5C10
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western blot:</b> 1/1,000-1/2,000. <b>Flow Cytometry.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Immunofluorescence/Immunocytochemistry.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human CD44 (aa 21-145) purified from <i>E. coli</i>
Specificity:	This antibody detects Human CD44 / HUTCH-I.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein-G affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD44 molecule (Indian blood group)
Database Link:	<a href="#">Entrez Gene 960 Human P16070</a>



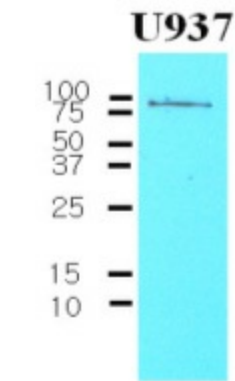
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**Background:**

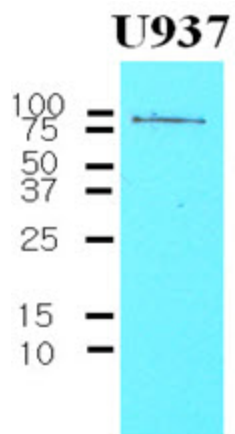
CD44 is a broadly distributed transmembrane glycoprotein that plays a critical role in a variety of cellular behaviors, including adhesion, migration, invasion, and survival. CD44 mediates cell-cell and cell-matrix interactions in a large part through its affinity for hyaluronan (HA), a glycosaminoglycan constituent of extracellular matrices, but also potentially through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Variants of CD44 are expressed in tissues during development, including embryonic epithelia. Known functions of CD44 are cellular adhesion (aggregation and migration), hyaluronate degradation, lymphocyte activation, lymph node homing, myelopoiesis and lymphopoiesis, angiogenesis, and release of cytokines. The functions of CD44 are principally dependant on cellular adhesion in one setting or another.

**Synonyms:**

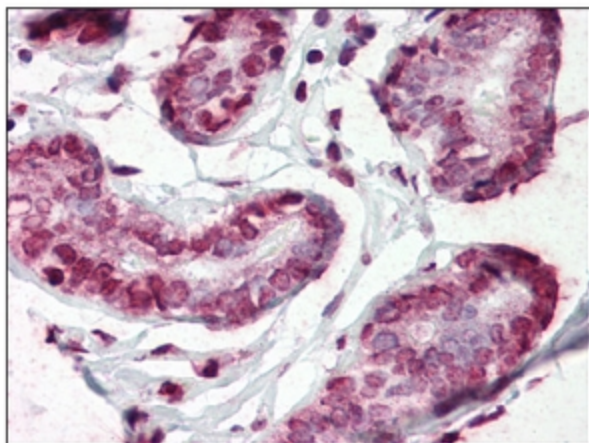
LHR, MDU2, MDU3, MIC4, CDw44, Epican, ECMR-III, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, PGP-1

**Product images:**

The Cell lysates of U937 (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD44 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis: The Cell lysates of U937 (30 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD44 antibody (1/1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: Cd44 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Breast at 5 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.