

## Product datasheet for **AM01076PU-N**

### CD44 Mouse Monoclonal Antibody [Clone ID: Bu52]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Bu52
Applications:	FC, IHC, IP
Recommended Dilution:	Immunoprecipitation. Flow Cytometry: Use 10 µl of 1/25-1/100 diluted antibody to label 1x10 <sup>6</sup> cells in 100 µl. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/100-1/200 (Requires antigen retrieval using heat treatment with citrate buffer pH 6.0 prior to staining of paraffin sections).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognises the CD44 cell surface antigen, a 100kD glycoprotein.
Formulation:	PBS, pH 7.4, containing 0.09% Sodium Azide State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month 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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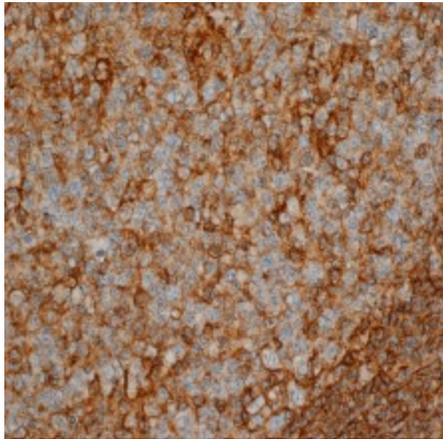
**Background:**

CD44 is widely expressed on human leucocytes, white matter of the brain and by some epithelial cells of the intestine and of the breast. Several isoforms of CD44 exist, including the predominant CD44H isoform detected in many normal tissues. The Bu52 antibody recognises an epitope that is common to all CD44 isoforms.

CD44 is a receptor for hyaluronic acid (HA) and is involved in cell-cell interactions, cell adhesion and migration. CD44 also participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing. CD44 expression may be up-regulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential.

**Synonyms:**

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

**Product images:**

Staining of paraffin embedded human tonsil with anti-CD44 antibody AM01076PU-N