

## Product datasheet for **AM00699FC-N**

### CD44 Rat Monoclonal Antibody [Clone ID: IM7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	IM7
Applications:	FC, IHC, IP
Recommended Dilution:	<b>Flow Cytometry:</b> Use 1 µg to stain 1.0 x 10 <sup>6</sup> cells. <b>Immunoprecipitation.</b> <b>Immunohistochemistry of acetone fixed frozen tissue sections.</b>
Reactivity:	Canine, Human, Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Specificity:	Recognizes all isoforms of the Pgp-1 cell surface glycoprotein. Present on B-cells, monocytes, macrophages and certain subsets of thymocytes and peripheral T-cells. Mice with the Ly-24.1 allotype have high densities of CD44+ T-cells, while Ly-24.2 strains are low expressors.
Formulation:	0.01M PBS, pH 7.4, 150mM Sodium Chloride Label: FITC State: Liquid purified IgG fraction from Tissue Culture Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
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 type 1 transmembrane glycoprotein also known as Phagocytic Glycoprotein 1 (pgp 1) and HCAM. CD44 is the receptor for hyaluronate and exists as a large number of different isoforms due to alternative RNA splicing. The major isoform expressed on lymphocytes, myeloid cells, and erythrocytes is a glycosylated type 1 transmembrane protein. Other isoforms contain glycosaminoglycans and are expressed on hematopoietic and non hematopoietic cells. CD44 is involved in adhesion of leukocytes to endothelial cells, stromal cells, and the extracellular matrix.

**Synonyms:**

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