

## Product datasheet for **SM1109P**

### CD44 Mouse Monoclonal Antibody [Clone ID: VFF-327v3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	VFF-327v3
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 10 µg/ml diluted CD44v3 antibody to label 10e6 cells or 100 µl whole blood. Immunohistochemistry on Frozen Sections: 10 µg/ml. Immunohistochemistry on Paraffin Sections: 10 µg/ml (This product requires antigen retrieval using heat treatment prior to staining of paraffin sections).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	CD44v3 antibody specifically recognises an epitope encoded by exon V3 on the variant portion of CD44.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
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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<b>Background:</b>	The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.
<b>Synonyms:</b>	CD44, LHR, MDU2, MDU3, MIC4, Phagocytic glycoprotein I, PGP-1, HUTCH-I, Extracellular matrix receptor-III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, Hermes antigen, Hyaluronate receptor, Heparan sulfate proteoglycan, Epican, CDw44