

Product datasheet for **SM1731P**

CD44 Rat Monoclonal Antibody [Clone ID: 1OD1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1OD1
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections. ELISA. Western Blot.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	GST-CD44v4 fusion protein. Spleen cells from immunised rats were fused with cells of the SP2/0 myeloma cell line.
Specificity:	This antibody specifically recognises an epitope encoded by exon v4 on the variant portion of CD44.
Formulation:	PBS containing 0.01% Thimerosal State: Purified State: Liquid purified IgG
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:	P16070



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Background:

CD44 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). CD44 participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for CD44 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.

CD44 variant 4 may influence the progression of colorectal cancer.

Synonyms:

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