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Product datasheet for TA389081

CD44 Mouse Antibody [Clone ID: M588]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M588
Applications:	ICC, IP, WB
Recommended Dilution:	**WB**: 1:1000 **ICC**: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone M588 was generated from a proprietary antigen related to the hyaluron binding region of human CD44 from the MDA-MB-231 breast cancer cell line.
Specificity:	Clone M588 detects 80-130 kDa* bands corresponding to the molecular mass of CD44 on SDS-PAGE immunoblots of native MDA-MB-231, A431, and A549 cell lysates. The antibody also detects denatured CD44 but with lower affinity. In addition, Clone M588 binds the native form of a recombinant human CD44 protein that contains only the hyaluron binding region. The antibody can be used in multiple applications including western blot, immunocytochemical labeling, ELISA, and immunoprecipitation, as well as for detecting CD44 in live, unfixed cells.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	80-130
Database Link:	P16070

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Background: Cell surface adhesion protein CD44 is a ubiquitously expressed type I transmembrane protein that has important functions related to cell-cell adhesion and extracellular matrix interactions. The transmembrane protein is post-translationally modified at multiple sites by glycosylation and phosphorylation. CD44 ligands include hyaluronic acid, collagens, laminins, osteopontin, serglycin, and fibronectin. CD44 has been implicated in inflammatory cell functions as well as in tumor growth and metastasis. CD44 is overexpressed in many types of cancer; the interaction between CD44 and HER2 has been linked to an increase in ovarian carcinoma cell growth. CD44 interacts with ezrin, radixin, and moesin to link the actin cytoskeleton to the plasma membrane and the extracellular matrix. These interactions are critical for CD44 function in cell-cell adhesion and cell motility.

Note: Protein G purified tissue culture supernatant.