

Product datasheet for **TA389080**

CD44 Mouse Antibody [Clone ID: M024]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M024
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Immunogen:	Clone M024 was generated from a proprietary antigen related to the extracellular region of human CD44 expressed in the MeWo melanoma cell line.
Specificity:	Clone M024 detects 80-130 kDa* bands corresponding to the molecular mass of CD44 on SDS-PAGE immunoblots of native human MDA-MB-231, A549, MeWo, and A431 cell lysates. The antibody also detects denatured CD44 but with lower affinity. The antibody can be used for multiple applications including ELISA, western blot, immunocytochemical labeling and immunoprecipitation. In addition, the antibody labels live unfixed MeWo cells, so the antibody may be useful for isolating CD44+ cells and for CD44 functional assays.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ 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.