

Product datasheet for **TA389123**

EPCAM Mouse Antibody [Clone ID: M042]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M042
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:500 ICC: 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M042) was generated from the extracellular region of human EpCAM.
Specificity:	Clone M042 mouse monoclonal antibody detects a 35-45 kDa* protein on SDS-PAGE "Native" immunoblots of human A431, H1915, and MCF7 carcinomas. This antibody does not detect denatured EpCAM. The antibody works for native western blot, immunoprecipitation, ELISA, and immunocytochemistry.
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:	35-45
Database Link:	P16422



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Background:

Epithelial Cell Adhesion Molecule (EpCAM) is a signal type I transmembrane glycoprotein that has an extracellular domain with one thyroglobulin type-1 domain and a short cytoplasmic domain. EpCAM is found on the surface of adenocarcinoma, but not on mesodermal or neural cell membranes. The EpCAM molecule has been shown to function as a homophilic Ca^{2+} independent adhesion molecule. It may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium. Defects in EpCAM cause hereditary non-polyposis colorectal cancer type 8 (HNPCC8) and diarrhea type 5 (DIAR5). EpCAM plays a role in embryonic stem cell proliferation and differentiation; it up-regulates the expression of FABP5, MYC, and Cyclin A & Cyclin E. It is highly and selectively expressed by undifferentiated embryonic stem cells and in many types of epithelial carcinomas.

Note:

Protein G purified tissue culture supernatant.