

Product datasheet for **TA389224**

TACSTD2 Mouse Antibody [Clone ID: M005]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M005
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone M005 was generated from a proprietary antigen related to the extracellular region of human Trop-2 from the A431 epidermoid carcinoma cell line.
Specificity:	Clone M005 detects a 50-65 kDa* band corresponding to the molecular mass of Trop-2 on SDS-PAGE immunoblots of native human A431, MDA-MB-231, and MCF-7 cell lysates. The antibody also detects denatured Trop-2, but with less affinity. Lower dilutions of the antibody should be used for denatured western blot. Clone M005 can be used for western blot, immunocytochemistry, ELISA, and immunoprecipitation, as well as for detecting live unfixed cells.
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:	50-65
Database Link:	P09758



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Background:

Trop-2 (TACSTD2) is a transmembrane glycoprotein found on invasive trophoblast cells and in several epithelial type cancer cells. Trop-2 has an extracellular domain with EGF thyroglobulin type-1 repeats, a transmembrane domain and a short cytoplasmic tail with a HIKE domain containing a PIP2 binding site. This glycoprotein functions in many signaling pathways including interaction of its extracellular domain with integrin β 1 to regulate FAK signaling, interaction of its transmembrane domain with claudin 1 and claudin 7 during tight junction formation, and regulation of intracellular calcium release by its PIP2 binding and activation of the ERK/MAPK pathway. These Trop-2 functions may be important during tumor proliferation, metastasis and invasion.

Note:

Protein G purified tissue culture supernatant.