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Anti-Trop-2/TACSTD2 (Extracellular region) Antibody

Catalog # AN1988

Product Information

Application	WB, ICC, IP
Primary Accession	P09758
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M005
Calculated MW	35709

Additional Information

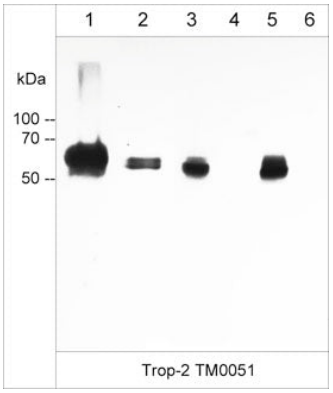
Gene ID	4070
Other Names	Tumor-associated calcium signal transducer 2; Trop-2; Membrane component chromosome 1 surface marker 1; GA733-1; TACSTD2; M1S1; TROP2
Dilution	WB~~1:1000 ICC~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Trop-2/TACSTD2 (Extracellular region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

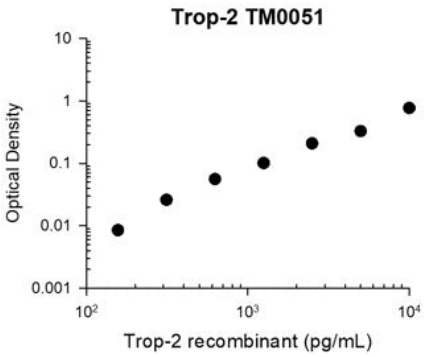
Background

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 β1 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.

Images

Immunocytochemical labeling of Trop-2 in paraformaldehyde fixed human A431 cells. The cells were labeled with mouse monoclonal anti-Trop-2 (clone M005). The antibody was detected using goat anti-mouse DyLight® 594.





Representative Standard Curve using mouse monoclonal anti-Trop-2 (AN1988) for ELISA capture of human recombinant Trop-2 extracellular region with His-tag. Capture was detected by using an anti-His-tag antibody followed by appropriate secondary antibody conjugated to HRP.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.