

Anti-TROP-2 Antibody-PE (7D257)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	PE
Clone:	7D257
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of anti-human TROP2 on MCF-7 cells. MCF-7 cells were detached using 1X trypsin, washed, then stained with PE Mouse anti-human TROP2.
Application:	FCM
Recommended	2 µl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human TROP-2 / TACSTD2 protein (TMPY-01262)
Antigen Species:	Human
Synonyms:	GP50;M1S1;GA7331;GA733-1;TACD2;TROP-2;TROP2;EGP1;EGP-1;tumor-associated calcium signal transducer 2
Biology Area:	Cancer Drug Targets

Research Background

TROP-2, also referred to as tumor-associated calcium signal transducer 2 (TACSTD2), GA733-1 or M1S1, is a cell surface glycoprotein highly expressed in a wide variety of epithelial cancers. In contrast, there is little or no expression of Trop-2 in adult somatic tissue. Because it is a cell surface protein that is selectively expressed in tumor cells, Trop-2 is a potential therapeutic target. The cytoplasmic tail of Trop-2 possesses potential serine and tyrosine phosphorylation sites and a phosphatidyl-inositol binding consensus sequence. Trop-2 transduces an intracellular calcium signal, which are consistent with the hypothesis that it acts as a cell surface receptor and support a search for a physiological ligand. TROP2 encoding by an intronless gene was originally defined by the monoclonal antibody GA733, and is a member of a family of at least two type I membrane proteins. The other known member is GA733-2, also called EpCAM and TROP1. It has been suggested by studies that the GA733-1 gene was formed by the retroposition of the GA733-2 gene via an mRNA intermediate.

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