

## Anti-TROP-2 Antibody (1P681)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Rhesus, Cynomolgus; Not React with: Mouse, Rat
Conjugation:	Unconjugated
Clone:	1P681
Purification:	Protein A

## Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Immunofluorescence staining of human TROP2 in MCF-7 cells with rabbit monoclonal antibody (1:200). The image showing membrane staining of MCF-7 cells.</li><li>2. Flow cytometric analysis of human TROP2 expression on MCF-7 cells. Cells were stained with purified anti-Human TROP2, then a FITC-conjugated second step antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of intact cells.</li><li>3. Immunofluorescence staining of TROP-2 in NCI-N87 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-Human TROP-2 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cell membrane.</li><li>4. Flow cytometric analysis of human TROP2 expression on NCI-N87 cells. Cells were stained with purified anti-Human TROP2, then a FITC-conjugated second step antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of intact cells.</li></ol>
Application:	ELISA,FCM,ICC/IF
Recommended	ELISA: 1:5000-1:10000; ICC-IF: 1:20-1:100; FCM: 1:25-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

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