

## Anti-TROP-2 Antibody (2M375)

## Product Details

|               |  |
|---------------|--|
| Ig Type:      | Rabbit IgG   |
| Reactivity:   | Human, Rhesus, Cynomolgus;<br>Not React with: Mouse, Rat |
| Conjugation:  | Unconjugated   |
| Clone:        | 2M375  |
| Purification: | Protein A  |

## Applications

|                    |   |
|--------------------|---|
| Verified Activity: | <p>1. Immunofluorescence staining of TROP2 in SKBR3 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-human TROP2 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). Positive staining was localized to Cell membrane.</p> <p>2. 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.</p> |
| Application:       | ICC/IF  |
| Recommended        | ICC-IF: 1:20-1:100  |

## 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:        | tumor-associated calcium signal transducer 2;GA733-1;TROP2;TROP-2;GA7331;GP50;EGP1;TACD2;M1S1;EGP-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 phosphatidylinositol 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,

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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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