

## Anti-TROP-2 Antibody (6N25)

## Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human, Rhesus, Cynomolgus; Not React with: Mouse, Rat
Conjugation:	Unconjugated
Clone:	6N25
Purification:	Protein A

## Applications

Verified Activity:	1. Immunofluorescence staining of human TROP2 in MCF-7 cells with mouse monoclonal antibody (1:60). The image showing membrane staining of MCF-7 cells.
	2. Immunochemical staining of human TROP2 in human rectal cancer with mouse monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).
	3. Immunochemical staining of human TROP2 in human placenta with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of cytotrophoblast.
	4. Immunochemical staining of human TROP2 in human mammary gland with mouse monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of alveolus epithelium.
	5. Immunofluorescence staining of TROP-2 in NCI-N87 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with mouse 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-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cell membrane.
Application:	ELISA(Cap), ICC/IF, IHC-P
Recommended	IHC-P: 1:100-1:500; ICC-IF: 1:20-1:100; ELISA(Cap): 1:250-1:2000

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

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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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481