Data Sheet (Cat.No.TMAY-00814)

TargetMol

Anti-TROP-2 Antibody (7D257)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human, Rhesus, Cynomolgus; Not React with: Mouse, Rat
Conjugation:	Unconjugated
Clone:	7D257
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of human TROP2 in human rectal cancer with mouse monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). 2. 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. 3. 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. 4. 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. 5. Anti-TROP2 mouse monoclonal antibody at 1:500 dilution. -Lane A: MCF7 Whole Cell Lysate. -Lane B: NCI-N87 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution. -Developed using the ECL technique. -Performed under reducing conditions. -Predicted band size:36 kDa. -Observed band size:36-40 kDa. 6. Immunochemical staining of monkey TROP2 in monkey Palm skin with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections. 7. Immunochemical staining of human TROP2 in human skin with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections. 8. Immunochemical staining of human TROP2 in human hysterocarcinoma with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections. 9. Immunochemical staining of human TROP2 in human skin cancer with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections. 10. 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. 11. 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. 12. Immunochemical staining of human TROP2 in human thyroid cancer with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.
Application:	ELISA,ELISA(Det),FCM,ICC/IF,IHC-P,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:1000-1:2000; IHC-P: 1:100-1:500; ICC-IF: 1:20-1:100; FCM: 1:25-1:100; ELISA(Det): 1:1000-1:10000

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:	tumor-associated calcium signal transducer 2;GA733-1;M1S1;TROP2;GP50;TROP-2;TACD2;GA7331;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 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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