

# TROP2 (human) monoclonal antibody (01)

Trop-2 (tumor-associated calcium signal transducer 2) is a 46-48kDa cell surface glycoprotein that acts as a calcium signal transducer. The molecule is expressed at high levels in human trophoblasts and overexpressed on a large variety of human carcinomas (including breast, colon, lung and prostate cancers). As an example, Trop-2 is among the most highly overexpressed genes in primary ovarian serous papillary tumors compared to normal ovarian epithelium and in colon tumors compared with normal mucosa. Trop-2 is homologous to Trop-1 and both are homologous to serum IGF-II-binding proteins. The specific role of Trop-2 in normal and tumor cells is not fully defined, but accumulating evidence suggests a regulatory role in the growth of carcinoma cells. Furthermore there is data supporting the hypothesis that Trop-2 is involved in tumor invasion and metastasis. Indeed, TROP2 is one of the cancer-related genes that correlates with biological aggressiveness and poor prognosis of colorectal cancer.

This antibody is covered by our [Worry-Free Guarantee](#).

Citations: 7

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## Ordering Information

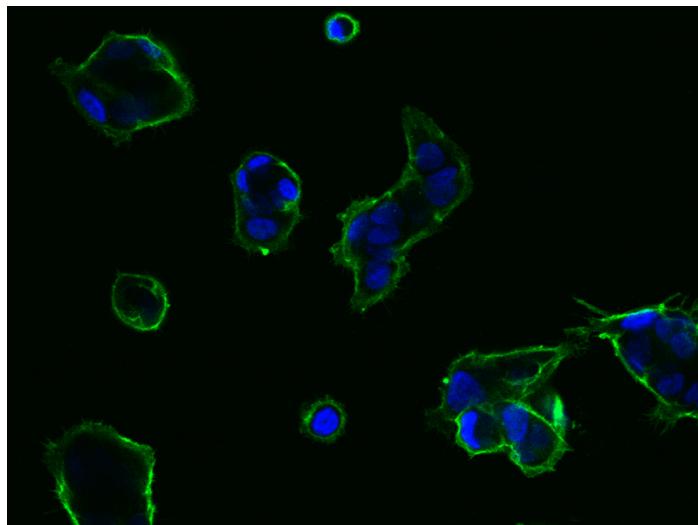
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ENZ-ABS380-0100

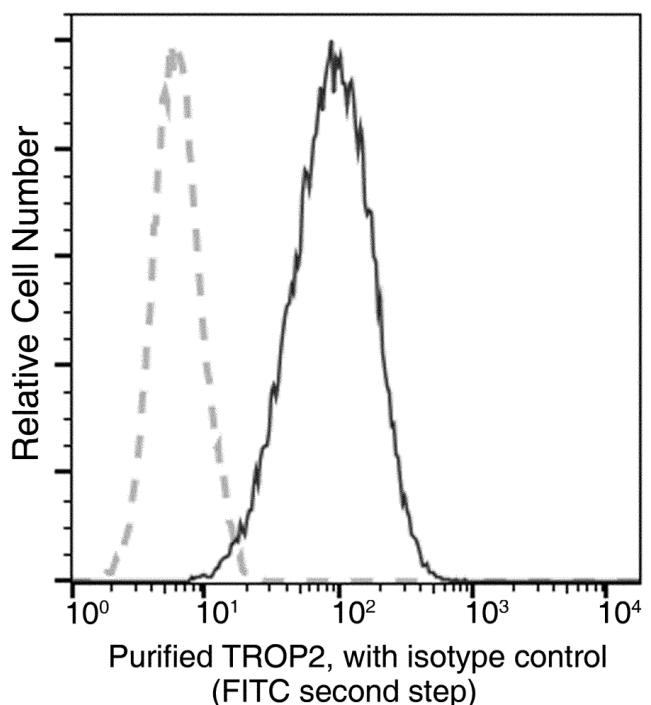
100µl

## Manuals, SDS & CofA

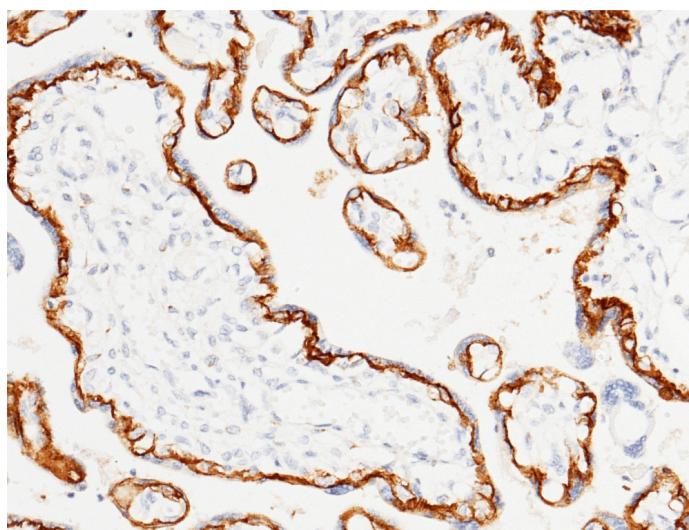
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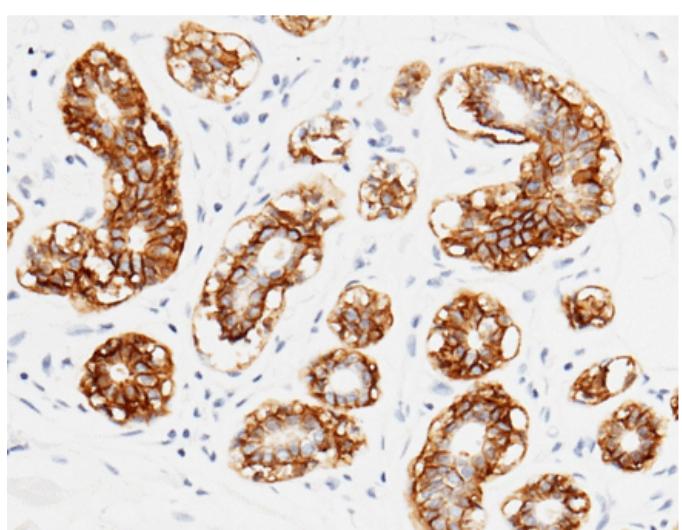
Immunofluorescence staining of TROP-2 in NCI-N87 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with TROP-2 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cell membrane.



Flow cytometric analysis of human TROP2 expression on NCI-N87 cells. Cells were stained with purified anti-Human TROP2, then a FITC-conjugated secondary antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of intact cells.



Immunochemical staining of TROP2 in human placenta with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of cytotrophoblast.



Immunochemical staining of 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.

## Handling & Storage

<b>Handling</b>	Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%) It is toxic to cells and should be disposed of properly. Avoid freeze-thaw cycles.
<b>Long Term Storage</b>	-20°C
<b>Shipping</b>	Blue Ice

## Regulatory Status

RUO - Research Use Only

## Product Details

<b>Alternative Name</b>	Tumor associated calcium signal transducer 2, GA733-1, M1S1, TACSTD2
<b>Application</b>	ELISA, Flow Cytometry, IHC (PS)
<b>Clone</b>	01
<b>Crossreactivity</b>	Does not cross-react with mouse or rat TROP2.
<b>Formulation</b>	Liquid. 0.2 µM filtered solution in PBS.
<b>Host</b>	Mouse
<b>Immunogen</b>	Recombinant human TROP2 extracellular domain.
<b>Isotype</b>	IgG1
<b>Purity Detail</b>	Protein A affinity purified.
<b>Species Reactivity</b>	Human
<b>UniProt ID</b>	P09758
<b>Worry-free Guarantee</b>	<b>This antibody is covered by our <u><a href="#">Worry-Free Guarantee</a></u></b>