

A24170

Leader in Biomolecular Solutions for Life Science



# TROP-2 Rabbit mAb

Catalog No.: A24170 **Recombinant**

## Basic Information

### Observed MW

40-65kDa

### Calculated MW

36kDa

### Category

Monoclonal Antibody

### Applications

WB,IHC-P,IF/ICC,FC,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC51505

## Recommended Dilutions

<b>WB</b>	1:1000 - 1:4000
<b>IHC-P</b>	1:200 - 1:800
<b>IF/ICC</b>	1:200 - 1:800
<b>FC</b>	1:500 - 1:1000
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Background

This intronless gene encodes a carcinoma-associated antigen. This antigen is a cell surface receptor that transduces calcium signals. Mutations of this gene have been associated with gelatinous drop-like corneal dystrophy.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
4070	P09758

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

EGP1; GP50; M1S1; EGP-1; TROP2; GA7331; GA733-1; TROP-2

## Product Information

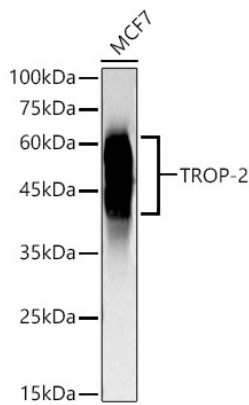
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of lysates from MCF7 cells using TROP-2 Rabbit mAb (A24170) at 1:1000 dilution.

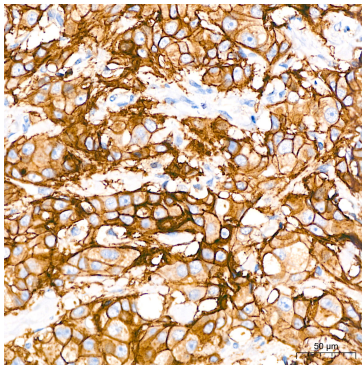
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

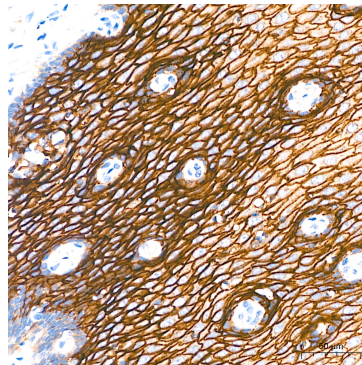
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

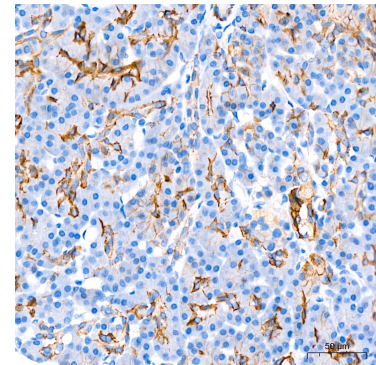
Exposure time: 30s.



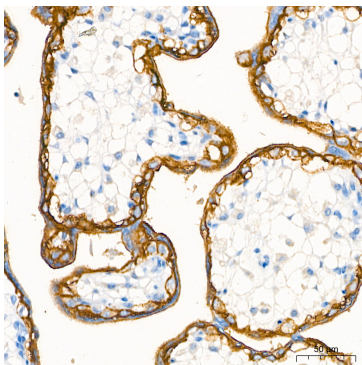
Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



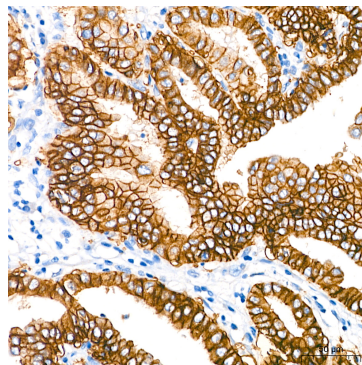
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



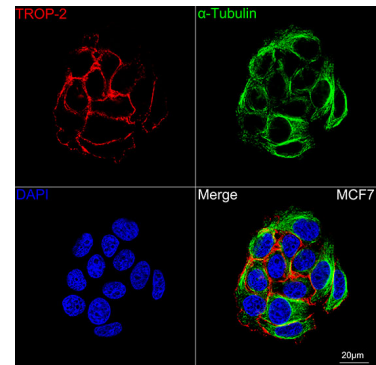
Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.

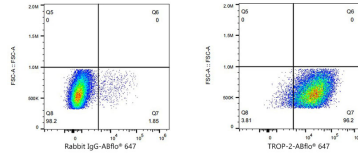
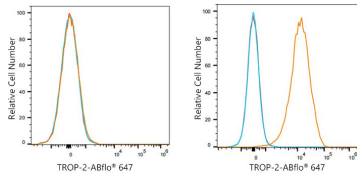


Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IHC staining.



Confocal imaging of MCF7 cells using TROP-2 Rabbit mAb (A24170,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse

IgG (H+L) Ab (AS076, dilution 1:500)  
(Green). DAPI was used for nuclear  
staining (Blue). Objective: 100x.



Flow cytometry:  $1 \times 10^6$  U-118MG cells (negative control, left) and MCF-7 cells (right) were surface-stained with TROP-2 Rabbit mAb (A24170, 2.5  $\mu\text{g}/\text{mL}$ , orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu\text{l}/\text{Test}$ , blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry:  $1 \times 10^6$  MCF-7 cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu\text{l}/\text{Test}$ , left) or TROP-2 Rabbit mAb (A241708, 2.5  $\mu\text{g}/\text{mL}$ , right).