

TROP-2 Rabbit mAb

Catalog No.: A24170 **Recombinant**

Basic Information

Observed MW

40-65kDa

Calculated MW

36kDa

Category

Primary antibody

Applications

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

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC51505


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.


Recommended Dilutions

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

Contact

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Immunogen Information

Gene ID

4070

Swiss Prot

P09758

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 27-274 of human TROP-2 (NP_002344.2).

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

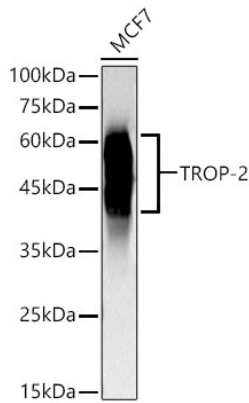
Affinity purification

Storage

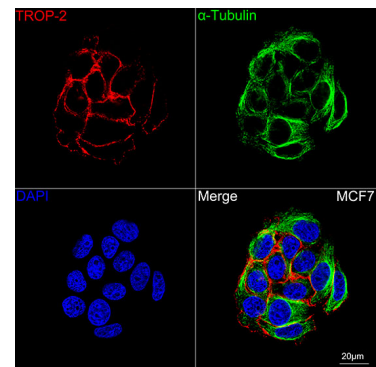
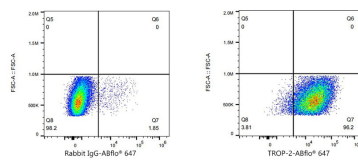
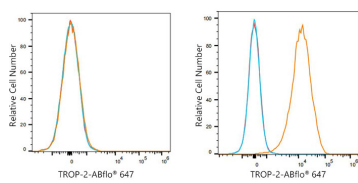
Store at -20°C. Avoid freeze / thaw cycles.

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

Validation Data



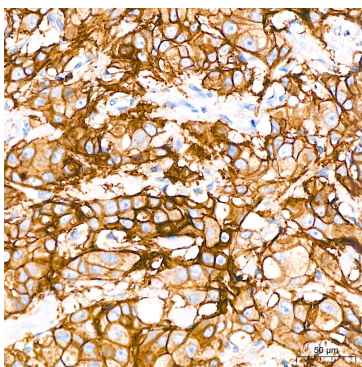
Western blot analysis of lysates from MCF7 cells using TROP-2 Rabbit mAb (A24170) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



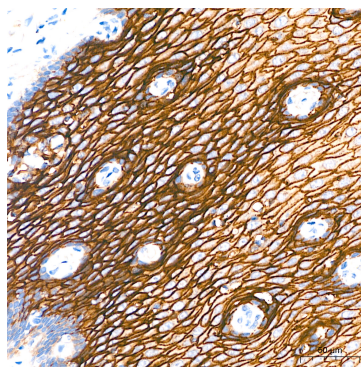
Flow cytometry: 1×10^6 U-118MG cells (negative control, left) and MCF-7 cells (right) were surface-stained with TROP-2 Rabbit mAb (A24170, 2.5 µg/mL, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.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

Flow cytometry: 1×10^6 MCF-7 cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, left) or TROP-2 Rabbit mAb (A24170, 2.5 µg/mL, right).

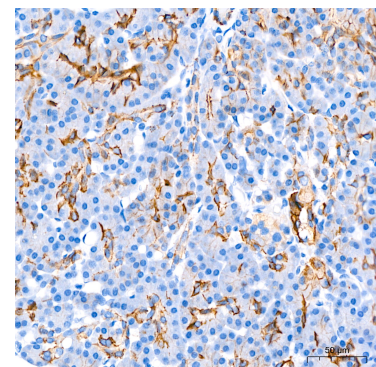
Confocal imaging of MCF7 cells using TROP-2 Rabbit mAb (A24170, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



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.

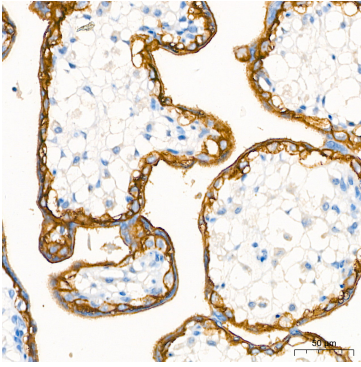


Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

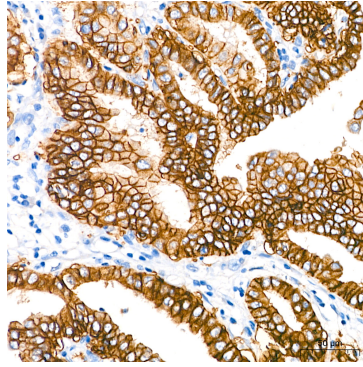


Immunohistochemistry analysis of paraffin-embedded Human pancreas tissue using TROP-2 Rabbit mAb (A24170) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Validation Data



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.