

## Product datasheet

# Anti-TROP2 antibody [M005] - Extracellular domain ab253293

[3 Images](#)

### Overview

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|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-TROP2 antibody [M005] - Extracellular domain   |
| <b>Description</b>         | Mouse monoclonal [M005] to TROP2 - Extracellular domain   |
| <b>Host species</b>        | Mouse   |
| <b>Specificity</b>         | The antibody detects denatured TROP2, but with less affinity. Lower dilutions of the antibody should be used for denatured western blot.  |
| <b>Tested applications</b> | <b>Suitable for:</b> ICC/IF, WB, ELISA  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human, Recombinant fragment   |
| <b>Immunogen</b>           | Recombinant fragment corresponding to Human TROP2. Clone M005 was generated from a proprietary antigen related to the extracellular region of human TROP2 from the A431 epidermoid carcinoma cell line.   |
| <b>Positive control</b>    | WB: A431, MDA-MB-231 and MCF7 cell lysates. ICC/IF: A431 cells.   |
| <b>General notes</b>       | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

### Properties

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|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | Preservative: 0.05% Sodium azide<br>Constituents: PBS, 50% Glycerol, 0.1% BSA   |
| <b>Purity</b>               | Protein G purified  |
| <b>Purification notes</b>   | Purified from TCS.  |
| <b>Clonality</b>            | Monoclonal  |

**Clone number** M005  
**Isotype** IgG1

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab253293 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes                                       |
|-------------|-----------|---|
| ICC/IF      |           | 1/100.                                      |
| WB          |           | 1/1000. Predicted molecular weight: 36 kDa. |
| ELISA       |           | Use at an assay dependent concentration.    |

## Target

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**Function** May function as a growth factor receptor.

**Tissue specificity** Placenta, pancreatic carcinoma cell lines.

**Involvement in disease** Defects in TACSTD2 are the cause of gelatinous drop-like corneal dystrophy (GDLD) [MIM:204870]; also known as lattice corneal dystrophy type III. GDLD is an autosomal recessive disorder characterized by grayish corneal amyloid deposits that cause severe visual impairment.

**Sequence similarities** Belongs to the EPCAM family.  
Contains 1 thyroglobulin type-1 domain.

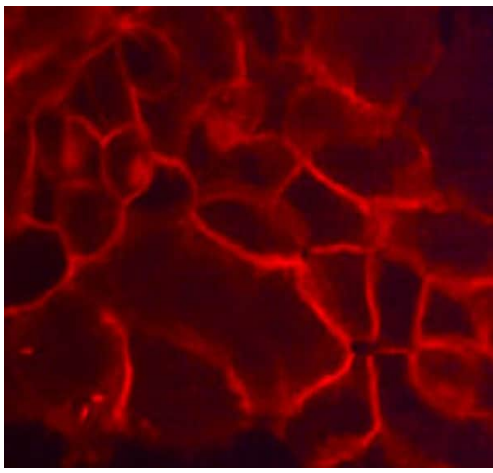
**Post-translational modifications** The N-terminus is blocked.

**Cellular localization** Membrane.

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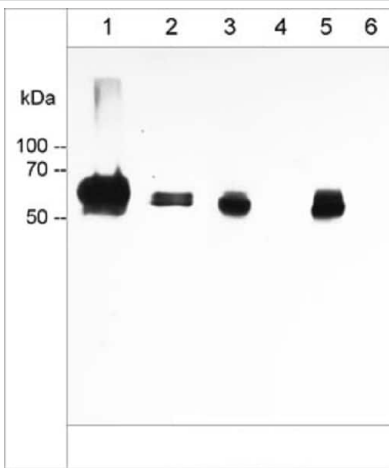
## Images

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Immunocytochemistry/ Immunofluorescence - Anti-TROP2 antibody [M005] - Extracellular domain (ab253293)

Paraformaldehyde-fixed A431 (Human epidermoid carcinoma cell line) cells labeling TROP2 using ab253293 at a 1/100 dilution in ICC/IF. Goat anti-mouse DyLight® 594 secondary.



Western blot - Anti-TROP2 antibody [M005] - Extracellular domain (ab253293)

**All lanes :** Anti-TROP2 antibody [M005] - Extracellular domain (ab253293) at 1/1000 dilution

**Lane 1 :** A431 (Human epidermoid carcinoma cell line) cell lysate, native conditions

**Lane 2 :** A431 (Human epidermoid carcinoma cell line) cell lysate, denatured conditions

**Lane 3 :** MDA-MB-231 (Human cell line) cell lysate, native conditions

**Lane 4 :** MDA-MB-231 (Human cell line) cell lysate, denatured conditions

**Lane 5 :** MCF7 (Human breast adenocarcinoma cell line) cell lysate, native conditions

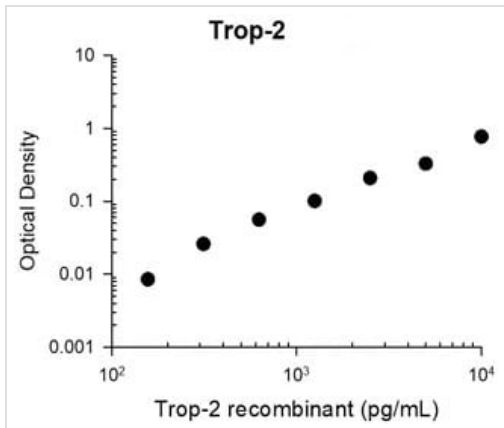
**Lane 6 :** MCF7 (Human breast adenocarcinoma cell line) cell lysate, denatured conditions

**Predicted band size:** 36 kDa

**Lanes 1, 3 & 5: Native conditions.**

**Lanes 2, 4 & 6: Denaturing conditions.**

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween-20 for 1 hour at room temperature.



Representative Standard Curve using ab253293 for ELISA capture of human recombinant TROP2 extracellular region with His-tag. Capture was detected by using an anti-His-tag antibody followed by appropriate secondary antibody conjugated to HRP.

ELISA - Anti-TROP2 antibody [M005] - Extracellular domain (ab253293)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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