

# Anti-TROP2 antibody [162-46.2] ab79976

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## 概述

产品名称	Anti-TROP2抗体[162-46.2]
描述	小鼠单克隆抗体[162-46.2] to TROP2
宿主	Mouse
经测试应用	适用于: Flow Cyt (Intra), IHC-P, ICC/IF
种属反应性	与反应: Human
免疫原	Tissue, cells or virus corresponding to Human TROP2. Human choriocarcinoma cell line BeWo.
阳性对照	IHC-P: Human placenta tissue. ICC/IF: JEG3 and MCF7 cells. Flow Cyt (Intra): JEG3 and MCF7 cells.
常规说明	Isotype: IgG1 (Igh-4a allotype)  This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a> .  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.  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&As

## 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
纯度	Protein G purified
克隆	单克隆
克隆编号	162-46.2
同种型	IgG1

## 应用

**The Abpromise guarantee** **Abpromise™** 承诺保证使用 ab79976 于以下的经测试应用

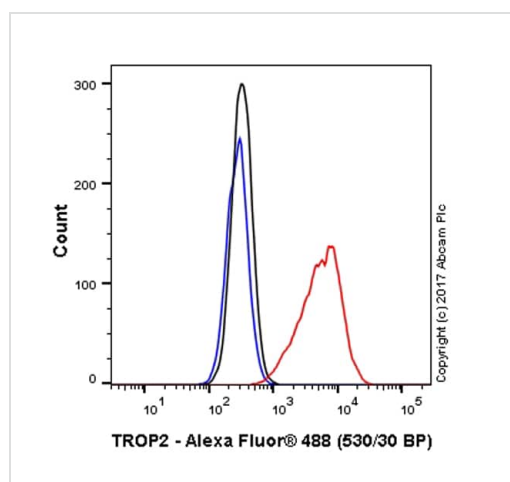
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		Use 0.1-1µg for 10 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 5 µg/ml.

## 靶标

功能	May function as a growth factor receptor.
组织特异性	Placenta, pancreatic carcinoma cell lines.
疾病相关	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.
序列相似性	Belongs to the EPCAM family. Contains 1 thyroglobulin type-1 domain.
翻译后修饰	The N-terminus is blocked.
细胞定位	Membrane.

## 图片



Flow Cytometry (Intracellular) - Anti-TROP2 antibody  
[162-46.2] (ab79976)

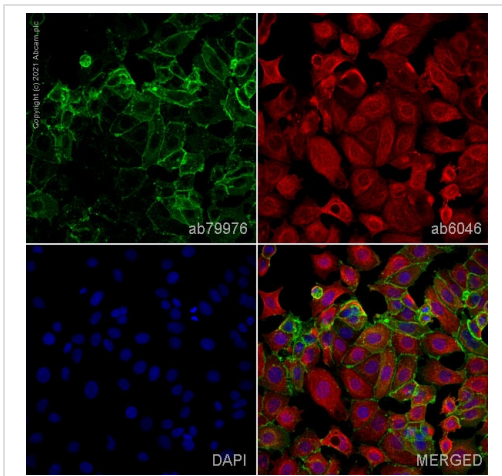
Overlay histogram showing JEG3 cells stained with ab79976 (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (ab79976, 0.1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150117**) at 1/2000 dilution for 30 min at 22°C.

Isotype control antibody (black line) was mouse IgG1 [15-6E10A7] (monoclonal) (**ab170190**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 50 mW Blue

laser (488nm) and 530/30 bandpass filter.

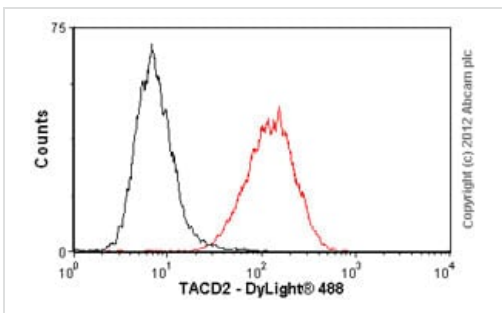
This antibody gave a positive signal in JEG3 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Triton X-100 for 15 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-TROP2 antibody [162-46.2] (ab79976)

ab79976 staining TROP2 in MCF7 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab79976 at 1µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

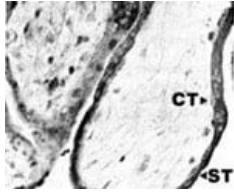
Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Flow Cytometry (Intracellular) - Anti-TROP2 antibody [162-46.2] (ab79976)

Overlay histogram showing MCF7 cells stained with ab79976 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab79976, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive result in 4% paraformaldehyde (10 min) fixed MCF7 cells used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TROP2 antibody [162-46.2] (ab79976)

ab79976 staining TROP2 in human 10 week placenta by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue. Anti-mouse peroxidase IgG used as secondary antibody. Note staining of cytotrophoblast (CT) and syncytiotrophoblast (ST).

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

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