

DESCRIPTION

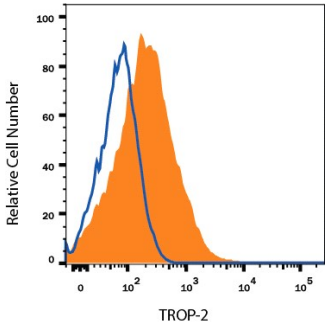
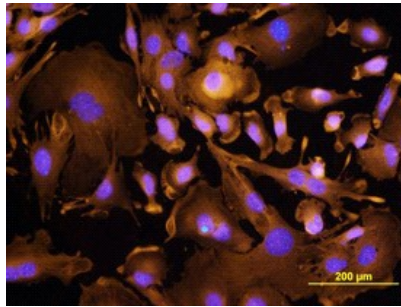
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| Species Reactivity | Mouse |
| Specificity | Detects mouse TROP-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human TROP-2 is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant mouse TROP-2 Ser82-Thr268 Accession # Q8BGV3 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------------|--|---|
| Western Blot | 0.1 µg/mL | Recombinant Mouse TROP-2 |
| Flow Cytometry | 0.25 µg/10 ⁶ cells | See Below |
| Immunocytochemistry | 5-15 µg/mL | See Below |
| Immunohistochemistry | 5-15 µg/mL | Perfusion fixed frozen sections of mouse testis |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA

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| <p>Flow Cytometry</p>  <p>Detection of TROP-2 in mIMCD-3 Mouse Cell Line by Flow Cytometry. mIMCD-3 mouse epithelial cell line was stained with Goat Anti-Mouse TROP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1122, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).</p> | <p>Immunocytochemistry</p>  <p>TROP-2 in XB2 Mouse Cell Line. TROP-2 was detected in immersion fixed XB2 mouse teratoma keratinocyte cell line using Goat Anti-Mouse TROP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1122) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p> |
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PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

TROP-2, also named tumor-associated calcium signal transducer 2 (TACSTD2), GA733 tumor associated antigen, and epithelial glycoprotein-1 (EGP-1), is a type I transmembrane protein highly expressed in carcinomas. It was originally identified as an antigen present on human gastrointestinal tumors and is the second of two members of this family. The other family member is GA7332, also called EpCAM, TROP1, 171A, gp40 and KSA. TROP2 can transduce an intracellular calcium signal and may play a role in tumor growth. It also has adhesive functions.