

## Product Datasheet

### TROP2 Antibody / TACSTD2 (orb606595)

<b>Catalog Number</b>	orb606595
<b>Category</b>	Antibodies
<b>Description</b>	TACSTD2, also called TROP2, is a cell surface glycoprotein receptor. It is a single pass type I membrane protein containing one thyroglobulin type-1 domain, an epidermal growth factor-like repeat, a phosphatidylinositol binding site and tyrosine phosphorylation sites near the C-terminus. It plays a role in transducing intracellular calcium signals. It is expressed in trophoblast cells, cornea and multi-stratified epithelia. It is also highly expressed in several types of tumors and is involved in regulating the growth of carcinoma cells.
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Buffer/Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	A portion of amino acids 31-274 were used as the immunogen for the TROP2 antibody.
<b>UniProt ID</b>	<b>P09758</b>
<b>Tested applications</b>	IF, IHC-P
<b>Dilution range</b>	Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

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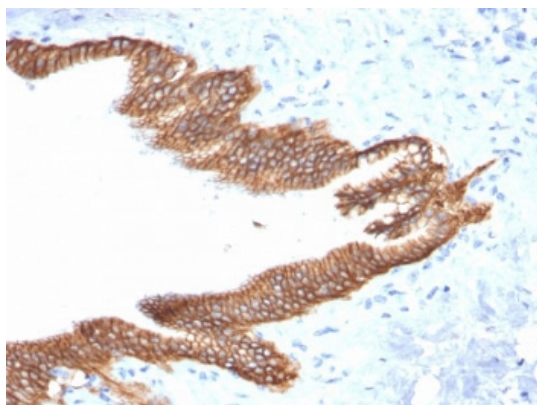
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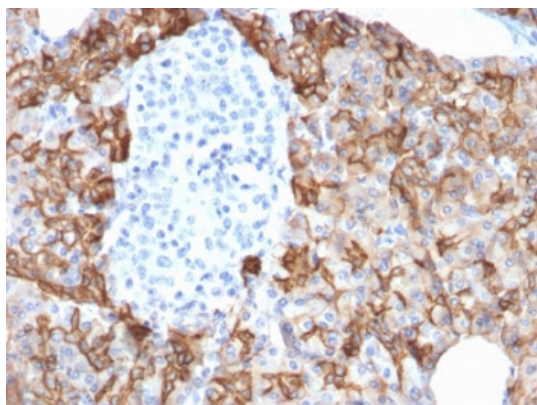
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<b>Application notes</b>	Optimal dilution of the TROP2 antibody should be determined by the researcher.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	TACSTD2/2152
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



IHC testing of FFPE human pancreatic carcinoma with TROP2 antibody (clone TACSTD2/2152). Required HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



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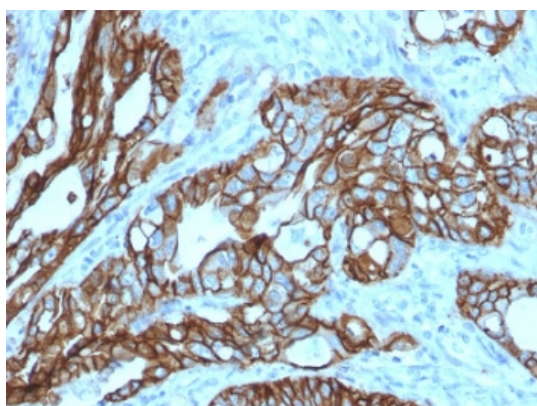
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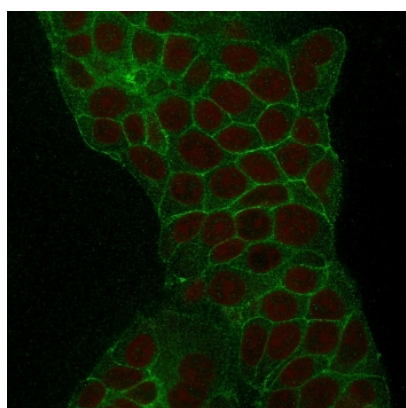
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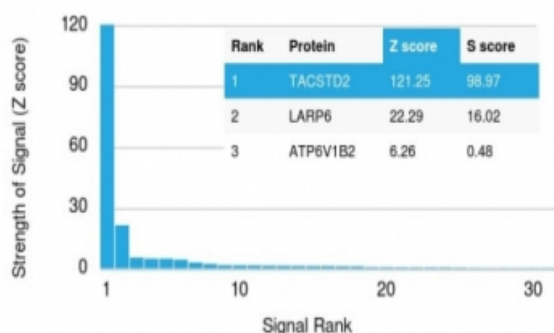


IHC testing of FFPE human colon carcinoma with TROP2 antibody (clone TACSTD2/2152). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of human MCF7 cells with TROP2 antibody (green, clone TACSTD2/2152) and Reddot nuclear stain (red).

### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using TROP2 antibody (clone TACSTD2/2152). These results demonstrate the foremost specificity of the TACSTD2/2152 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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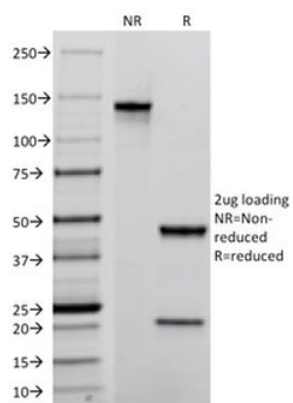
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SDS-PAGE analysis of purified, BSA-free TROP2 antibody (clone TACSTD2/2152) as confirmation of integrity and purity.

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