Product Datasheet

TROP2 Antibody (orb606594)

Description	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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P, WB
Immunogen	A portion of amino acids 31-274 were used as the immunogen for the TROP2 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Store the TROP2 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).
Note	For research use only
Application notes	Optimal dilution of the TROP2 antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal
Clone Number	TACSTD2/2151

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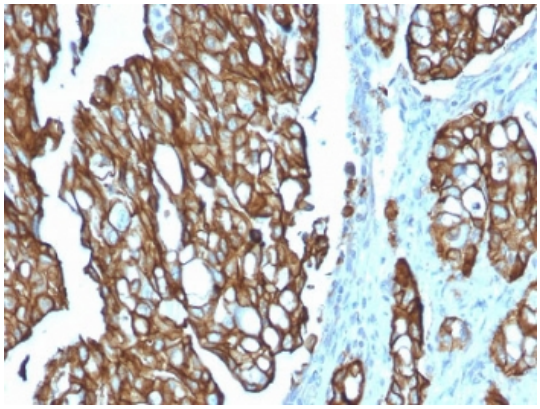
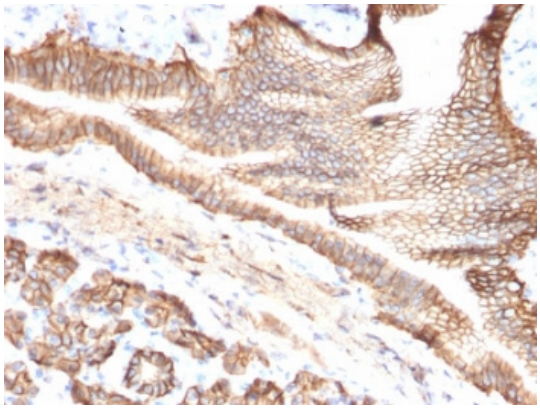
Purity	Protein G affinity chromatography
Uniprot ID	**P09758**
Hazard Information	This TROP2 antibody is available for research use only.
Dilution Range	Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human colon carcinoma with TROP2 antibody (clone TACSTD2/2151). Required HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human pancreatic carcinoma with TROP2 antibody (clone TACSTD2/2151). 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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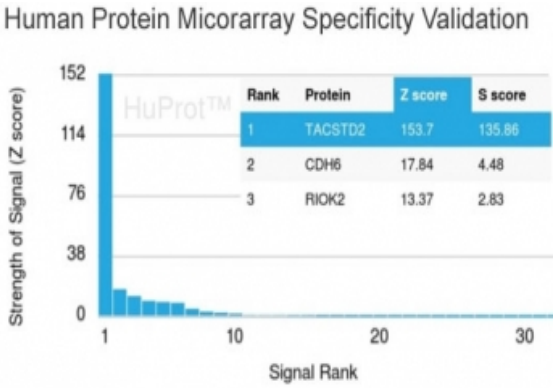
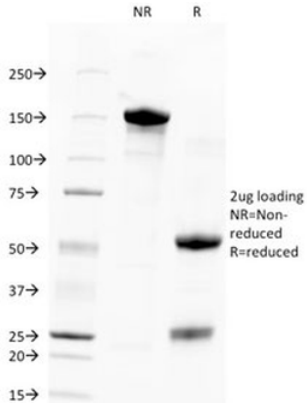
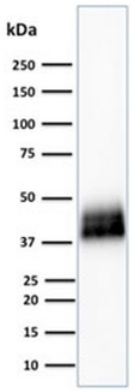


Analysis of HuProt (TM) microarray containing more than 19, 000 full-length human proteins using TROP2 antibody (clone TACSTD2/2151). These results demonstrate the foremost specificity of the TACSTD2/2151 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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.



SDS-PAGE analysis of purified, BSA-free TROP2 antibody (clone TACSTD2/2151) as confirmation of integrity and purity.



Western blot testing of human A431 cell lysate with TROP2 antibody (clone TACSTD2/2151). Predicted molecular weight ~36 kDa.

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