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36-2711: Anti-TACSTD2 / TROP2 (Epithelial Marker) Monoclonal Antibody(Clone: TACSTD2/2151)

Clonality :	Monoclonal
Clone Name :	TACSTD2/2151
Application :	WB,IHC
Reactivity :	Human
Gene :	TACSTD2
Gene ID :	4070
Uniprot ID :	P09758
Alternative Name :	Cell surface glycoprotein Trop-2;Membrane Component Chromosome 1, Surface Marker 1 (M1S1);Pancreatic Carcinoma Marker Protein GA733-1;TROP2;Tumor-Associated Calcium Signal Transducer 2 (TACSTD2)
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment of human TACSTD2 protein (around aa 31-274) (exact sequence is proprietary)

Description

TACSTD2is 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 intransducing 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),

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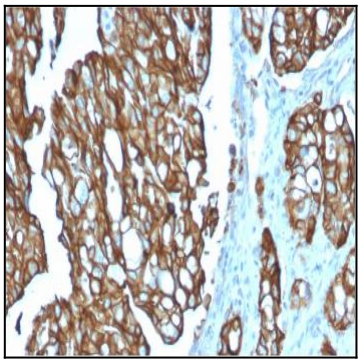


Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2151).

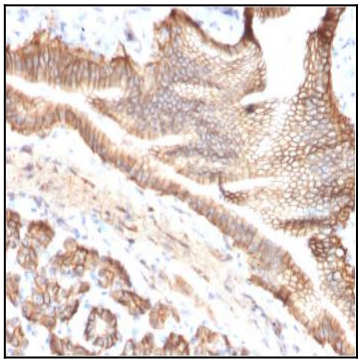


Fig. 2: Formalin-fixed, paraffin-embedded human Pancreatic Carcinoma stained with TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2151).

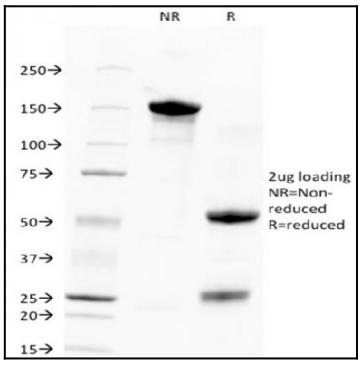


Fig. 3: Purified TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2151). Confirmation of Integrity and Purity of Antibody.

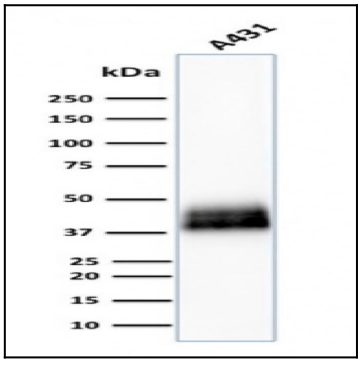


Fig. 4: Western Blot Analysis of human A431 cell lysate using TACSTD2 / TROP2 Mouse Monoclonal Antibody (TACSTD2/2151).

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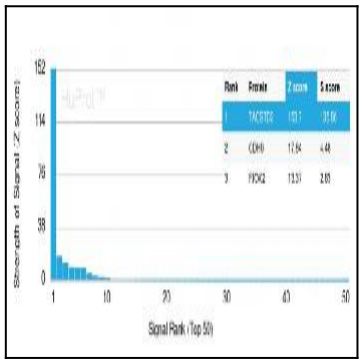


Fig. 5: Analysis of Protein Array containing >19,000 full-length human proteins using TACSTD2 Mouse Monoclonal Antibody (TACSTD2/2151) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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