

For Research Use Only

TACSTD2/TROP2 Monoclonal antibody



Catalog Number: 68141-1-Ig

Basic Information

Catalog Number: 68141-1-Ig	GenBank Accession Number: BC009409	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 4070	CloneNo.: 5A6B1
Source: Mouse	UNIPROT ID: P09758	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600
Isotype: IgG2b	Full Name: tumor-associated calcium signal transducer 2	
Immunogen Catalog Number: AG25775	Calculated MW: 36 kDa	
	Observed MW: 40-50 kDa	

Applications

Tested Applications:
WB, IF/ICC, IHC, ELISA

Species Specificity:
Human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HaCaT cells,

IHC : human breast cancer tissue,

IF/ICC : HaCaT cells,

Background Information

Trophoblast cell surface antigen 2 (TROP2), also named as TACSTD2, is a transmembrane glycoprotein. TROP2 plays a role in transducing intracellular calcium signals. It is expressed in trophoblast cells, cornea and multi-stratified epithelia. TROP2 is overexpressed in most carcinomas and is involved in cancer proliferation, migration, invasion, and metastasis. Congenital mutations of TROP2 cause a rare autosomal recessive disease which may lead to blindness-the gelatinous drop-like corneal disease (PMID: 35688908).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

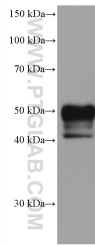
T: 4006900926

E: Proteintech-CN@ptglab.com

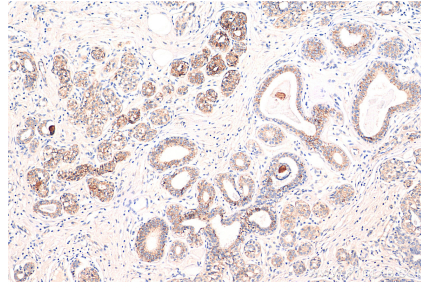
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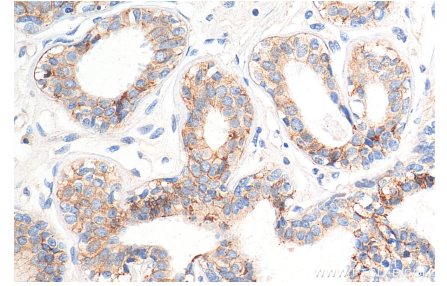
Selected Validation Data



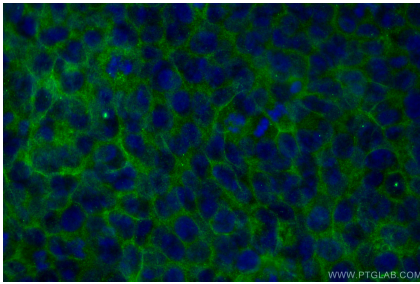
HaCaT cells were subjected to SDS PAGE followed by western blot with 68141-1-Ig (TACSTD2/TROP2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68141-1-Ig (TACSTD2/TROP2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68141-1-Ig (TACSTD2/TROP2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using TACSTD2/TROP2 antibody (68141-1-Ig, Clone: 5A6B1) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).