

TACSTD2/TROP2 Polyclonal antibody

Catalog Number: 29856-1-AP

Basic Information

Catalog Number:

29856-1-AP

Size:

300 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31473

GenBank Accession Number:

BC009409

GeneID (NCBI):

4070

UNIPROT ID:

P09758

Full Name:tumor-associated calcium signal
transducer 2**Calculated MW:**

36 kDa

Observed MW:

45-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, 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 : A431 cells, HaCaT cells

IHC : human intrahepatic cholangiocarcinoma tissue,
human ovary cancer tissue, human skin 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:

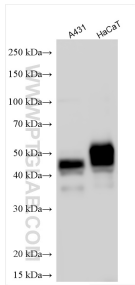
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

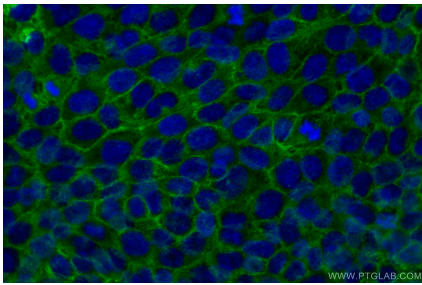
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

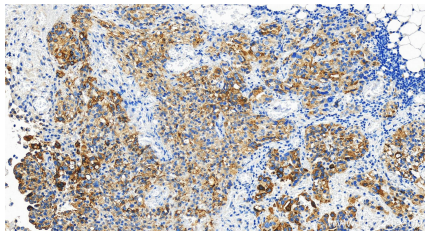
Selected Validation Data



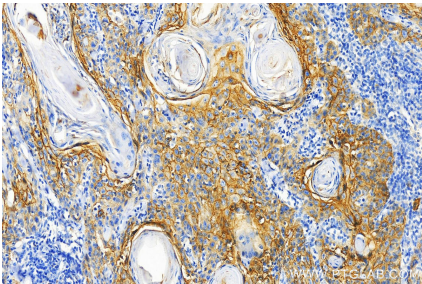
Various lysates were subjected to SDS PAGE followed by western blot with 29856-1-AP (TACSTD2/TROP2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



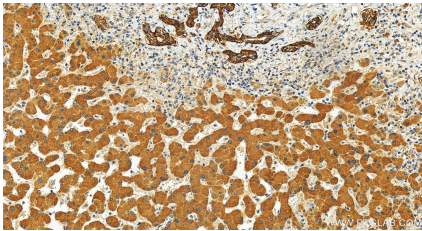
Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using TACSTD2/TROP2 antibody (29856-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 29856-1-AP (TACSTD2/TROP2 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 29856-1-AP (TACSTD2/TROP2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 29856-1-AP (TACSTD2/TROP2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).