

For Research Use Only

# TM7SF3 Polyclonal antibody

Catalog Number: 19826-1-AP



## Basic Information

**Catalog Number:**

19826-1-AP

**Size:**

150ul, Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG13919

**GenBank Accession Number:**

BC005176

**GeneID (NCBI):**

51768

**UNIPROT ID:**

Q9NS93

**Full Name:**

transmembrane 7 superfamily member 3

**Calculated MW:**

570 aa, 64 kDa

**Observed MW:**

64-80 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Species Specificity:**

human, mouse

**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:** mouse kidney tissue, HepG2 cells, mouse pancreas tissue, mouse testis tissue, U2OS cells

**IHC:** human ovary cancer tissue,

**IF/ICC:** U-251 cells,

## Background Information

The seven-transmembrane superfamily member 3 protein (TM7SF3) is a pro-survival factor induced by p53 that regulates protein homeostasis and attenuates cellular stress. TM7SF3 inhibits caspase 3/7 while siRNA-mediated silencing of TM7SF3 accelerates ER stress and the unfolded protein responses (UPR). This involves inhibitory phosphorylation of eIF2 $\alpha$  activity and increased expression of ATF3, ATF4, and C/EBP, followed by induction of apoptosis. TM7SF3 maintains cellular reducing power within physiological levels and reduces the content of proapoptotic proteins such as FAS, FADD, and caspase-8. (PMID: 36304109)

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

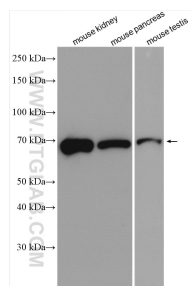
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

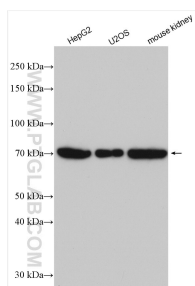
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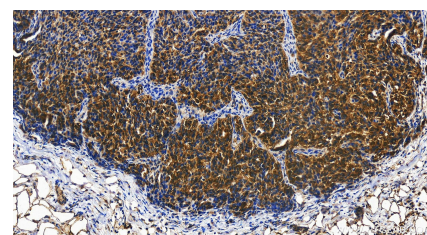
## Selected Validation Data



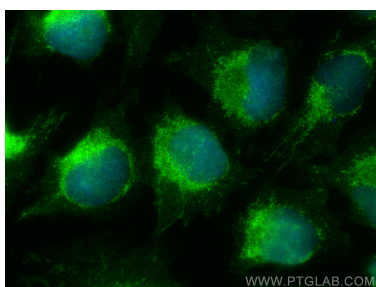
Various lysates were subjected to SDS PAGE followed by western blot with 19826-1-AP (TM7SF3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 19826-1-AP (TM7SF3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 19826-1-AP (TM7SF3 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using TM7SF3 antibody (19826-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).