

For Research Use Only

TM7SF3 Polyclonal antibody

Catalog Number: 19826-1-AP



Basic Information

Catalog Number: 19826-1-AP	GenBank Accession Number: BC005176	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51768	Recommended Dilutions: WB 1:500-1:3000
Source: Rabbit	UNIPROT ID: Q9NS93	IHC 1:50-1:500
Isotype: IgG	Full Name: transmembrane 7 superfamily member 3	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG13919	Calculated MW: 570 aa, 64 kDa	
	Observed MW: 64-80 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse kidney tissue, HepG2 cells, mouse pancreas tissue, mouse testis tissue, U2OS cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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 α 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

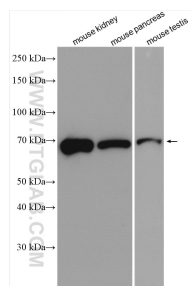
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

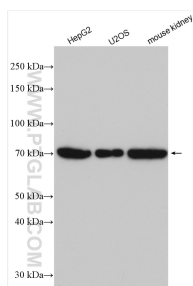
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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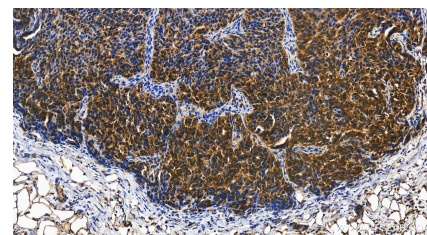
Selected Validation Data



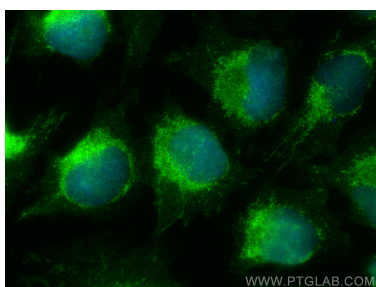
Various lysates were subjected to SDS PAGE followed by western blot with 19826-1-AP (TM7SF3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



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).