

For Research Use Only

# ERp19 Polyclonal antibody

Catalog Number: 20181-1-AP



## Basic Information

Catalog Number:	20181-1-AP	GenBank Accession Number:	BC001493	Purification Method:	Antigen affinity purification
Size:	150ul , Concentration: 167 ug/ml by Nanodrop and 167 ug/ml by Bradford method using BSA as the standard;	GenelD (NCBI):	51060	Recommended Dilutions:	WB 1:500-1:1000 IHC 1:50-1:500
Source:	Rabbit	UNIPROT ID:	O95881		
Isotype:	IgG	Full Name:	thioredoxin domain containing 12 (endoplasmic reticulum)		
Immunogen Catalog Number:	AG14045	Calculated MW:	172 aa, 19 kDa		
		Observed MW:	20 kDa, 40 kDa		

## Applications

Tested Applications:	WB, IHC, ELISA	Positive Controls:	
Species Specificity:	human	WB :	A172 cells, LN-229 cells, U-251 cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>			IHC : human liver cancer tissue, human hepatocirrhosis tissue

## Background Information

TXNDC12, which is known as thioredoxin domain-containing protein 12, ERp16, ERp18, ERp19, or hTLP19, is a member of the protein disulfide isomerase (PDI) family that plays important roles in cancer development and progression. TXNDC12 has been demonstrated to contribute to tumorigenicity in human gastric cancer by promoting cell growth, migration, and invasion(PMID: 25940440). Other studies also revealed the overexpression of TXNDC12 promotes HCC metastasis through  $\beta$ -catenin-mediated induction of EMT and that TXNDC12 has the potential to be a prognostic factor and therapeutic target of HCC. (PMID: 31570854)

## Storage

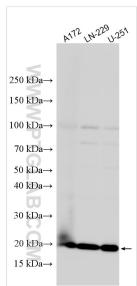
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

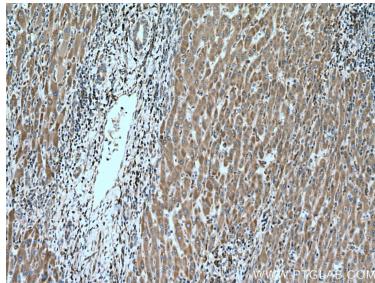
For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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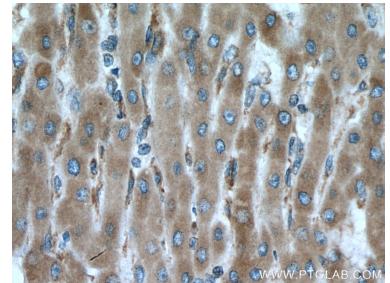
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20181-1-AP (ERp19 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 20181-1-AP (ERp19 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 20181-1-AP (ERp19 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).