

For Research Use Only

# Thrombospondin 1 Polyclonal antibody

Catalog Number: 18304-1-AP

Featured Product

47 Publications



## Basic Information

<b>Catalog Number:</b> 18304-1-AP	<b>GenBank Accession Number:</b> BC028145	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7057	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P07996	
<b>Isotype:</b> IgG	<b>Full Name:</b> thrombospondin 1	
	<b>Calculated MW:</b> 129 kDa	
	<b>Observed MW:</b> 180 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat, pig

**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 :** C6 cells, A431 cells, human peripheral blood platelets, HeLa cells, HUVEC cells, NIH/3T3 cells

**IHC :** human lung cancer tissue, human placenta tissue, human liver tissue

## Background Information

Thrombospondin 1 (TSP-1), an extracellular matrix protein, is the first identified natural angiogenesis inhibitor. A variety of normal cells, including endothelial cells, fibroblasts, adipocytes, smooth muscle cells, monocytes, macrophages, and transformed cells such as malignant glioma cells, secrete Thrombospondin 1. It regulates cellular phenotype during tissue genesis and repair. It acts as a molecular facilitator by bringing together cytokines, growth factors, matrix components, membrane receptors and extracellular proteases. Thrombospondin 1 binds to a wide variety of integrin and non-integrin cell surface receptors. It is also a major activator of transforming growth factor (TGFβ1). Secreted TSP1 is a glycoprotein with a molecular mass of 150-180 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Gang Xu	34745323	Comput Math Methods Med	WB
Liming Zhang	34786057	Am J Transl Res	WB,IHC
Kun Jia	26993605	Oncotarget	IHC

## 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

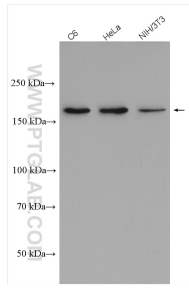
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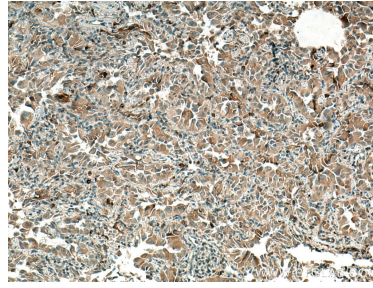
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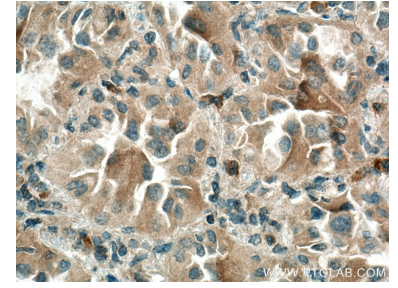
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18304-1-AP (Thrombospondin 1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 18304-1-AP (Thrombospondin 1 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 lung cancer tissue slide using 18304-1-AP (Thrombospondin 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).