

For Research Use Only

# CTSS Polyclonal antibody

Catalog Number: 27538-1-AP



## Basic Information

<b>Catalog Number:</b> 27538-1-AP	<b>GenBank Accession Number:</b> BC002642	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 130 µg/ml	<b>GeneID (NCBI):</b> 1520	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P25774	
<b>Isotype:</b> IgG	<b>Full Name:</b> cathepsin S	
<b>Immunogen Catalog Number:</b> AG25881	<b>Calculated MW:</b> 37 kDa <b>Observed MW:</b> 25 kDa, 37 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IHC, WB, 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:** HUVEC cells, THP-1 cells, U-87 MG cells

**IHC:** human colon cancer tissue,

**IF:** U-87 MG cells,

## Background Information

Cathepsin S (CTSS) is a cysteine protease that plays an important role in extracellular matrix degradation and remodeling, antigen presentation, inflammation, and angiogenesis; it has been identified as a radiation response gene. In malignant tumors, CTSS induces tumor proliferation, invasion and metastasis through various mechanisms. CTSS proteins could be detected in two forms, pro-CTSS (35-37 kDa) and active CTSS (25 kDa) (PMID: 30006610, PMID: 34208434). And in this publication, it was also reported that active CTSS was expressed at higher levels than pro-CTSS in the lysate (PMID: 34208434).

## 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

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

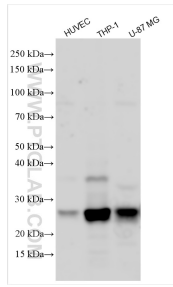
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

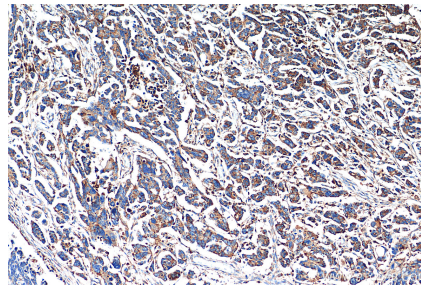
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

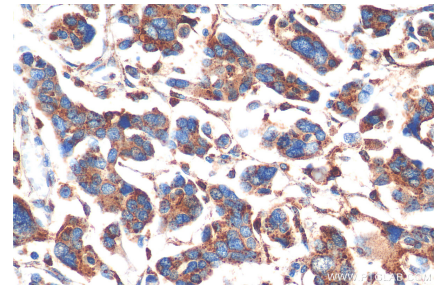
## Selected Validation Data



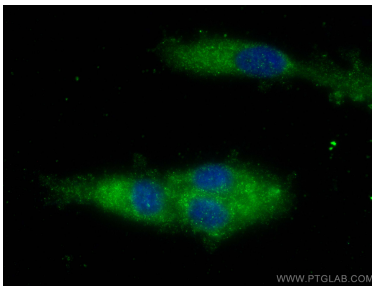
Various lysates were subjected to SDS PAGE followed by western blot with 27538-1-AP (CTSS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 27538-1-AP (CTSS 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 colon cancer tissue slide using 27538-1-AP (CTSS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-87 MG cells using CTSS antibody (27538-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).