

CTSS Polyclonal antibody

Catalog Number: 27538-1-AP

Basic Information

Catalog Number:

27538-1-AP

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25881

GenBank Accession Number:

BC002642

GeneID (NCBI):

1520

UNIPROT ID:

P25774

Full Name:

cathepsin S

Calculated MW:

37 kDa

Observed MW:

25 kDa, 37 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, 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/ICC : 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:

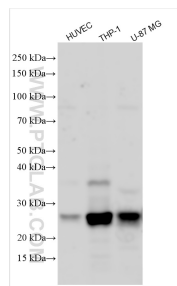
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

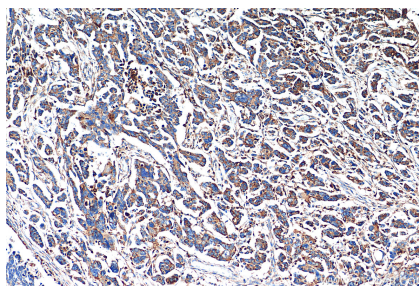
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

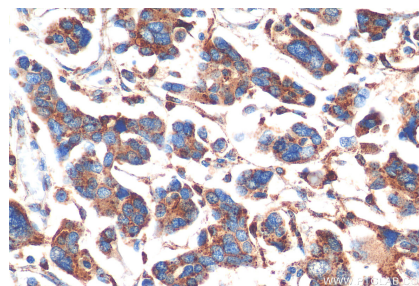
Selected Validation Data



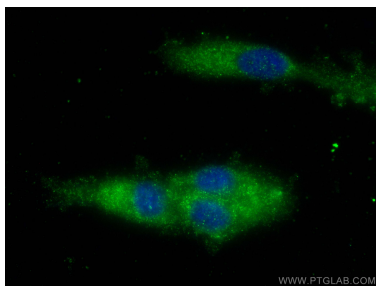
Various lysates were subjected to SDS PAGE followed by western blot with 27538-1-AP (CTSS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).