

Cathepsin C Polyclonal antibody

Catalog Number: 30790-1-AP

Basic Information

Catalog Number: 30790-1-AP	GenBank Accession Number: NM_001814	Purification Method: Antigen affinity purification
Size: 700 ug/ml	GeneID (NCBI): 1075	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: P53634	IHC 1:50-1:500
Isotype: IgG	Full Name: cathepsin C	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG32420	Calculated MW: 52 kDa	
	Observed MW: 100 kDa	

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 : HEK-293T cells,

IHC : human skin cancer tissue,

IF/ICC : U2OS cells,

Background Information

Cathepsin C, also known as DPP-I. It is expected to be located in lysosome and highly expressed in lung, kidney and placenta (PMID: 9092576). This gene encodes a member of the peptidase C1 family and lysosomal cysteine proteinase that appears to be a central coordinator for activation of many serine proteinases in cells of the immune system. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate heavy and light chains that form a disulfide-linked dimer. Defects in the encoded protein have been shown to be a cause of Papillon-Lefevre syndrome, an autosomal recessive disorder characterized by palmoplantar keratosis and periodontitis. The calculated molecular weight of Cathepsin C is 51 kDa. The 23-kDa band may be a subunit of the protein monomer, while a 100-kDa band is a dimer form (PMID: 26884336, 31557781).

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:

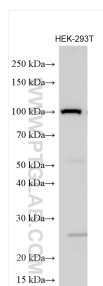
T: 4006900926

E: Proteintech-CN@ptglab.com

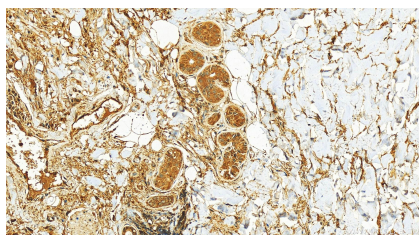
W: ptgcn.com

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

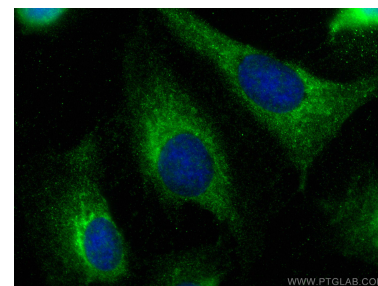
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30790-1-AP (Cathepsin C antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 30790-1-AP (Cathepsin C antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using Cathepsin C antibody (30790-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).