

For Research Use Only

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: 150ul , Concentration: 700 ug/ml by Nanodrop;	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	Positive Controls:
Species Specificity: human	WB : HEK-293T cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

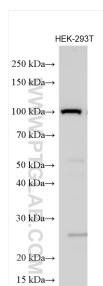
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

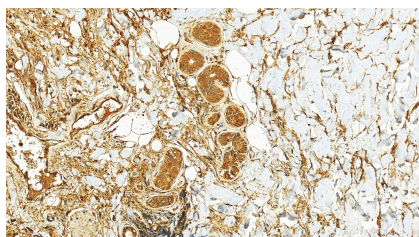
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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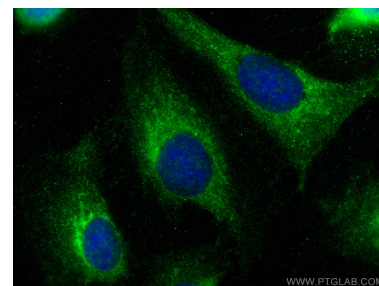
Selected Validation Data



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).