Datasheet for ABIN7600695

anti-CTSC antibody (AA 22-463)

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Overview

Quantity:	100 µg
Target:	CTSC
Binding Specificity:	AA 22-463
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CTSC antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-CTSC Antibody Picoband®
Immunogen:	E.coli-derived human CTSC recombinant protein (Position: V22-L463).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CTSC Antibody Picoband® (ABIN7600695). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CTSC
Alternative Name:	CTSC (CTSC Products)
Background:	Synonyms: Triggering receptor expressed on myeloid cells 1, TREM-1, Triggering receptor expressed on monocytes 1, CD354, TREM1, Tissue Specificity: Highly expressed in adult liver, lung and spleen than in corresponding fetal tissue. Also expressed in the lymph node, placenta, spinal cord and heart tissues. Expression is more elevated in peripheral blood leukocytes than in the bone marrow and in normal cells than malignant cells. Expressed at low levels in the early development of the hematopoietic system and in the promonocytic stage and at high levels in mature monocytes. Strongly expressed in acute inflammatory lesions caused by bacteria and fungi. Isoform 2 was detected in the lung, liver and mature monocytes. Background: Cathepsin C (CTSC) also known as dipeptidyl peptidase I (DPP-I) is a lysosomal exo-cysteine protease belonging to the peptidase C1 protein family, a subgroup of the cysteine cathepsins. In humans, it is encoded by the CTSC gene. 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. A portion of the propeptide acts as an intramolecular chaperone for the folding and stabilization of the mature enzyme. This enzyme requires chloride ions for activity and can degrade glucagon. 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.
Molecular Weight:	60 kDa
Gene ID:	1075
UniProt:	P53634

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Cigic, B., Dahl, S. W., Pain, R. H. The residual pro-part of cathepsin C fulfills the criteria required for an intramolecular chaperone in folding and stabilizing the human proenzyme.

Application Details

	Biochemistry 39: 12382-12390, 2000. 2. Gorlin, R. J., Pindborg, J. J., Cohen, M. M., Jr. Syndromes of the Head and Neck. (2nd ed.) New York: McGraw-Hill (pub.) 1976. Pp. 373-376. 3. Hart, P. S., Zhang, Y., Firatli, E., Uygur, C., Lotfazar, M., Michalec, M. D., Marks, J. J., Lu, X., Coates, B. J., Seow, W. K., Marshall, R., Williams, D., Reed, J. B., Wright, J. T., Hart, T. C. Identification of cathepsin C mutations in ethnically diverse Papillon-Lefevre syndrome patients. J. Med. Genet. 37: 927-932, 2000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.