antibodies

Datasheet for ABIN2667383 Cathepsin E Protein (CTSE) (AA 18-396)





Overview

Quantity:	10 µg
Target:	Cathepsin E (CTSE)
Protein Characteristics:	AA 18-396
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purity:	>95 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per μ g cytokine as determined by the LAL method.

Target Details

Target:	Cathepsin E (CTSE)
Alternative Name:	Cathepsin E (CTSE Products)
Background:	Cathepesin E (CTSE) is an intracellular aspartic protease that was originally identified as a cathepsin D-like acid protease. CTSE and CTSD have similar substrate specificities and CTSE is
	active in acidic conditions in a pH range from 2.5 to 5.5. In vitro experiments have identified
	several CTSE substrates including insulin beta chain, neurokinin, and FGF. Although the

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Target Details

Molecular Weight:	The 389 amino acid recombinant protein has a predicted molecular mass of approximately
	neurodegeneration has also been reported.
	carcinomas and cervical and lung adenocarcinomas. The possible involvement of CTSE in
	ductal adenocarcinoma (PDAC). In addition to PDAC, CTSE is also overexpressed in gastric
	many other cathepsins, CTSE has emerged as a therapy target for cancers, such as pancreatic
	infections. CTSE-deficient macrophages also show abnormalities, such as autophagy. Like
	molecules and subsequently, CTSE-deficient mice have increased susceptibility to bacterial
	and pathological processes. CTSE is required for antigen presentation on class II MHC
	function of CTSE is not completely understood, it has been implicated in several physiological

42.3 kDa. The DTT-reduced protein migrates at approximately 45 kDa and the non-reduced protein migrates at approximately 90 kDa by SDS-PAGE. The N-terminal amino acid i

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: After auto-activation, CTSE activity is determined by its ability to cleave the fluorogenic peptide substrate, Mca-Pro-Leu-Gly-Leu-Dpa-Ala-Arg-NH2. The specific activity is >1,500 pmol/min/µg.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening.
Buffer:	$0.22\ \mu m$ filtered protein solution is in 20 mM MES, 150 mM NaCl, pH 6.5.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -70°C for six months.

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Image 1.

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