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Datasheet for ABIN2666490 GZMA Protein (AA 26-262)

Image



Overview

Quantity:	10 µg
Target:	GZMA
Protein Characteristics:	AA 26-262
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purity:	> 90 % , as determined by Coomassie stained SDS-PAGE.	
Sterility:	0.22 µm filtered	
Endotoxin Level:	Less than 1.0 EU per μg of protein as determine by the LAL method.	

Target Details

Target:	GZMA
Alternative Name:	Granzyme A (GZMA Products)
Background:	Granzyme A is a serine protease belonging to the granzyme family and is expressed exclusively by cytotoxic T cells (CTL) and NK cells. Most circulating CD56+CD8- NK cells, and
	approximately half of circulating CD8+ T cells, coexpress both granzymes A and B. In contrast, few circulating CD4+ T cells express granzyme A or B. Activation of CD8+ and CD4+ T

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Pathways:	Apoptosis
	reducing conditions by SDS-PAGE. The predicted N-terminal amino acid is
	kDa. The protein migrates at about 35 kDa in DTT-reducing conditions and about 55 kDa in non-
Molecular Weight:	This 252 amino acid recombinant protein has a predicted molecular mass of approximately 28
	wild-type CTLs.
	induce the nuclear features of apoptosis (particularly DNA fragmentation) more slowly than do
	morphologically normal apoptosis in vitro, but those from mice that are deficient of granzyme B
	immunoregulatory functions. However, CTLs from mice lacking granzyme A induce
	granzyme A can function as an activation molecule with potentially important
	epithelial cells, produce cytokines in response to granzyme A. These findings suggest that
	the suicide serine protease inhibitor 3,4-dichloroisocoumarin. Other fibroblast lines, as well as
	to produce IL-6 and IL-8. Cytokine induction is abrogated by treating the serine protease with
	lymphohistiocytosis. Besides the protease activity, granzyme A induces human lung fibroblasts
	Dysregulation of this pathway results in several human diseases, such as hemophagocytic
	suppressor gene product whose expression is reduced in transformed, metastatic cells.
	cell by perforin. Once in a cell, granzyme A activates DNA nicking by DNAse NM23-H1, a tumor
	Granzyme A was found to induce caspase independent cell death when it enters into the target
	transformed target cell, granzymes enter the target cell via endocytosis and induce apoptosis.
	receptor-mediated conjugate formation between a granzyme-containing cell and an infected or
	lymphocytes induces substantial expression of granzyme B, but not granzyme A. Following

Application Details

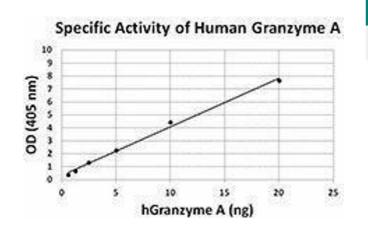
Application Notes:	Optimal working dilution should be determined by the investigator.	
Comment:	Biological activity: Lysyl endopeptidase activated human granzyme A cleaves the peptide	
	substrate N-carbobenzyloxy-Gly-Arg-ThioBenzyl ester (Z-GR-SBzl), in the presence of 5,5'Dithio-	
	bis (2-nitrobenzoic acid) (DTNB), with an activity >5,000 pmol/min/ μ g.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Reconstitution:	For maximum results, quick spin vial prior to opening.	
Buffer:	0.22 µm filtered protein solution is in PBS, pH 7.4.	

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Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -70°C for six months.

Images



Flow Cytometry

Image 1.