

Mouse anti-Human Granzyme K Monoclonal Antibody | anti-GZMK antibody

anti-human Granzyme K monoclonal antibody

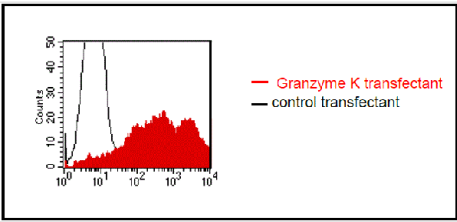
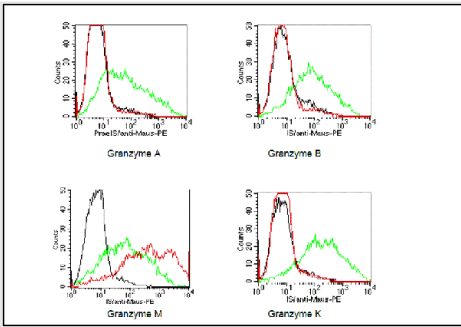
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71481	Mouse	Human	ELISA, ELISA, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Granzyme K; Monoclonal Antibody; anti-human Granzyme K monoclonal antibody; anti-GZMK antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	GM-6C3
Specificity	anti-human Granzyme K (GrK; granzyme-3; NK-tryptase-2)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	264
Applicable Applications for anti-GZMK antibody	ELISA, ELISA, FCM/FACS (Flow Cytometry), ELISA
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human Granzyme K
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)



Application Data
Fig.1: FACS analysis of BOSC23 cells using GM-6C3 Cat.# GM- 0205. BOSC23 cells were transiently transfected with an expression vector encoding either Granzyme K (red curve) or an irrelevant protein (control transfectant: black curve). Binding of GM-6C3 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with Granzyme K transfected cells.

Application Data
Fig2: BOSC cells were transiently transfected with expression vectors for Granzyme A, B, K, or M. Expression of the constructs was tested with an antimyc monoclonal antibody (green curves), an irrelevant monoclonal antibody served as negative control (black curves). For specificity testing, GM-6C3 hybridoma supernatant was tested on all transfectants. A positive signal was obtained only with Granzyme K transfected cells (red curves).

ADDITIONAL INFORMATION

Related Product Information for anti-GZMK antibody	Background: Granzyme K (GrK) belongs to a family of trypsin-like serine proteases localised in the cytotoxic granules of activated T cells and NK cells. It encodes a 28 kDa serine protease whose gene is located on chromosome 5q11-12 close to the granzyme A-encoding gene. Like granzyme A, it has a trypsin-like specificity cleaving at the basic residues arginine and lysine. Granzyme K triggers rapid cell death independently of caspase activation with single-stranded DNA nicks and is primarily expressed in thymus, lung, spleen and peripheral blood leukocytes.
References	Bade B, Lohrmann J, ten Brinke A, Wolbink AM, Wolbink GJ, ten Berge IJM, Virchow JC Jr, Luttmann W and CE Hack (2005). Detection of soluble human granzyme K in vitro and in vivo. Eur. J. Immunol. (10): 2940-2948. Bade B, Boettcher HE, Lohrmann J, Hink-Schauer C, Bratke K, Jenne DE, Virchow JC Jr and W. Luttmann (2005). Differential expression of the granzymes A, K and M and perforin in human peripheral blood lymphocytes. Int Immunol. (11): 1419-1428.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504235
NCBI GeneID	3003
NCBI Accession #	NP_002095.1
NCBI GenBank Nucleotide #	NM_002104.2
UniProt Accession #	P49863; B2R563
Molecular Weight	28,882 Da
NCBI Official Full Name	granzyme K
NCBI Official Synonym Full Names	granzyme K (granzyme 3; tryptase II)
NCBI Official Symbol	GZMK
NCBI Official Synonym Symbols	TRYP2
NCBI Protein Information	granzyme K; NK-Tryp-2; granzyme 3; granzyme-3; tryptase II; fragmentin-3; NK-tryptase-2; granzyme K (serine protease, granzyme 3; tryptase II)
UniProt Gene Name	GZMK
UniProt Synonym Gene Names	TRYP2; NK-Tryp-2
UniProt Entry Name	GRAK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/granzyme-k-antibody-clone-gm-6c3-flow-cytometry-elisa/71481>