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Product datasheet for DM1214

Granzyme K (GZMK) Mouse Monoclonal Antibody [Clone ID: GM6C3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GM6C3
Applications:	ELISA, FC
Recommended Dilution:	**Flow cytometry:** 1.2 µg/10^6 cells. **ELISA:** 1/200-1/400. **Cell based ELISA** with intakt, transiently transfected cells: 1/200-1/400.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding human Granzyme K
Specificity:	This antibody reacts to Granzyme K (GZMK).
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	granzyme K
Database Link:	Entrez Gene 3003 Human P49863

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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 specifity 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.

Synonyms: Granzyme-3, NK-tryptase-2, Fragmentin-3, TRYP2, NK-Tryp-2

Product images:

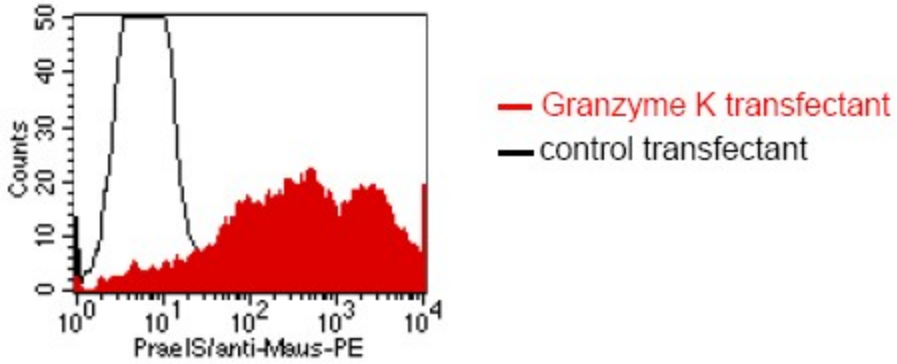

Fig.1: FACS analysis of BOSC23 cells using GM-6C3. BOSC23 cells were transiently transfected with an expres-sion vector encoding either Granzyme K (red curve) or anirrelevant protein (control transfectant: black curve). Binding ofGM-6C3 was detected with a PE-conjugated secondary antibody.A positive signal was obtained only with Granzyme K transfectedcells.

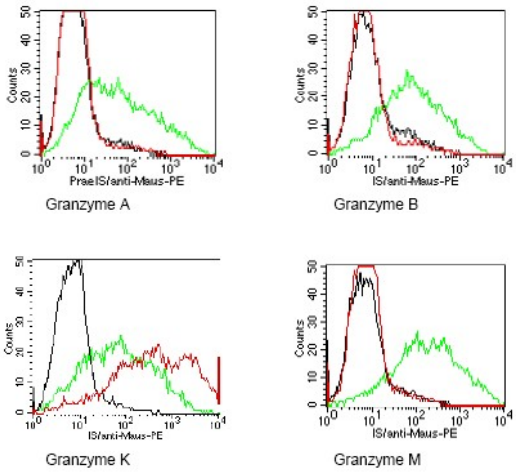

Fig2: BOSC cells were transiently transfected with expression vectors forGranzyme A, B, K, or M. Expression of the constructs was tested with ananti-myc monoclonal antibody (green curves), an irrelevant monoclonalantibody served as negative control (black curves). For specificity testing, GM-6C3 hybridoma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