

Product datasheet for **DM1209**

Granzyme K (GZMK) Mouse Monoclonal Antibody [Clone ID: GM24C3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GM24C3
Applications:	ELISA, FC
Recommended Dilution:	Flow Cytometry: 1.2 µg/10 ⁶ cells. ELISA: 1/200-1/400. Cell based ELISA with intact, transiently transfected cells: 1/200-1/400.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	GM24C3 was generated by genetic immunisation of BALB/c mice with an immunisation vector containing the Granzyme K cDNA
Specificity:	This antibody recognizes Granzyme K (GZMK).
Formulation:	PBS, pH 7.2 without preservatives State: Purified State: Liquid purified IgG fraction.
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



[View online »](#)

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.

Synonyms:

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

Note:

Selection: based on recognition of the complete native protein expressed on transfected mammalian cells.

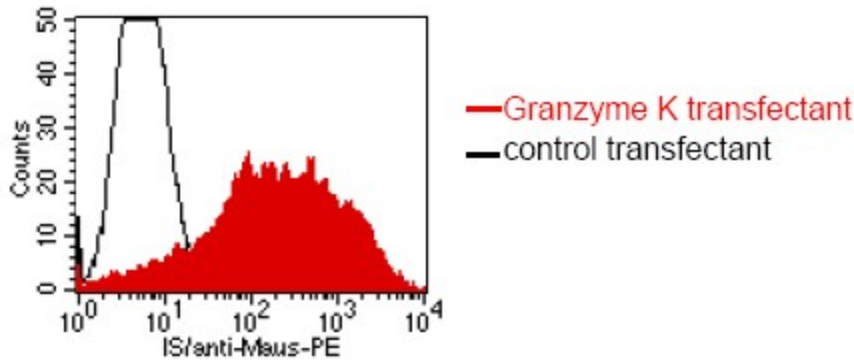
Product images:

Fig.1: FACS analysis of BOSC23 cells using GM-24C3. 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-24C3 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with Granzyme K transfected cells.

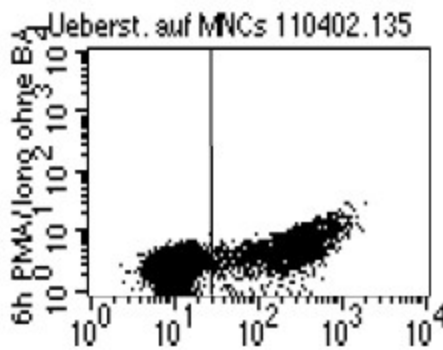


Fig.2: Intracellular detection of granzyme B in human PBMC. FACS analysis of human PBMC using hybridoma supernatant of GM-24C3. PBMC were cultivated in the presence of phorbol ester and ionomycin subsequently fixed and permeabilised. Binding of GM-24C3 was detected with a FITC-conjugated secondary antibody.

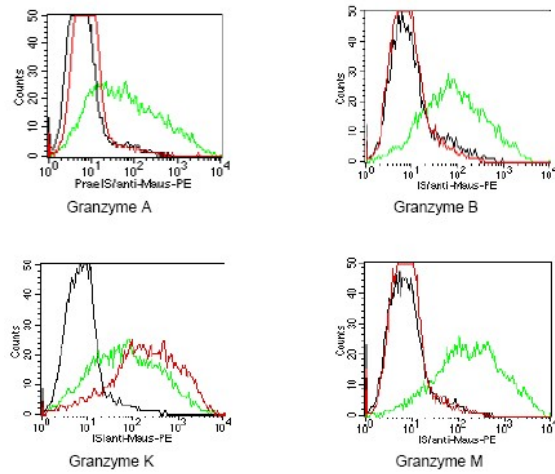


Fig3: BOSC cells were transiently transfected with expression vectors for Granzyme A, B, K, or M. Expression of the constructs was tested with an anti-myc monoclonal antibody (green curves), an irrelevant monoclonal antibody served as negative control (black curves). For specificity testing, GM-24C3 hybridoma supernatant was tested on all transfectants. A positive signal was obtained only with Granzyme K transfected cells (red curves).