anti-human Granzyme K FITC-conjugated

FITC - conjugated monoclonal antibody to Granzyme K

Cat-No: **21144053** 500 µl

Clone: 24C3

Specificity: The monoclonal antibody 24C3 recognizes granzyme K expressed in activated T cells and NK cells

Isotype subclass: Mouse IgG1

Form: The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: Flow cytometry

Background: Granzymes are exogenous serine proteases that are stored in the cytotoxic granules of activated T cells and NK cells. Upon target cell contact, the contents of these granules are directionally exocytosed and, with the assistance of perforin, the granzymes enter the cytosol of the target cell. To date, five human granzymes (A, B, H, K, M) have been described at the molecular genetic level.
Human granzyme K (GZMK) is a 28 kD 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. To which extent human granzyme K plays a role in the induction of apoptosis in the target cells remains to be evaluated. High mRNA levels of granzyme K are detected in activated T cells and NK cells but are absent in normal tissues that do not contain high numbers of these cells.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only.** Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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Gladiolenweg 2; 26169 Friesoythe; Germany
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com