RD SYSTEMS a biotechne brand

Human Granzyme B Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2103C Catalog Number: MAB105408

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Granzyme B in sandwich ELISAs.	
Source	Recombinant Monoclonal Rabbit IgG Clone # 2103C	
Purification	Protein A or G purified from cell culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Granzyme B Gly19-Tyr247 Accession # P10144	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either Ivophilized or as a 0.2 μm filtered solution in PBS.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	NK-92 human natural killer lymphoma cell line
ELISA	This antibody functions as an ELISA d Monoclonal Antibody (Catalog # MAB1	etection antibody when paired with Human Anti-Human Granzyme B 05409).

This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Human Granzyme B DuoSet ELISA Kit (Catalog # DY2906-05) for convenient development of a sandwich ELISA or the Human Granzyme B Quantikine ELISA Kit (Catalog # DGZB00) for a complete optimized ELISA.



PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution. 		

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BACKGROUND

Granzyme B is a member of the granzyme family of the serine proteases found specifically in the cytotoxic granules of cytotoxic T lymphocytes (CTL) and natural killer (NK) cells (1, 2). Granzyme B plays an essential role in granule-mediated apoptosis and may have additional roles in rheumatoid arthritis and in bacterial and viral infections (3). It activates various caspases and cleaves proteins such as aggrecan (3). Human Granzyme B is synthesized as a precursor (247 residues) with a signal peptide (residues 1-18), a pro peptide (residues 19-20), and a mature chain (residues 21-247) (4-6). The recombinant human (rh) Granzyme B consisting of residues 19-247 was expressed and purified. After being activated by active cathepsin C, rhGranzyme B cleaves a thioester substrate described previously (3).

References:

- 1. Kam, C-M. et al. (2000) Biochim. Biophys. Acta 1477:307.
- 2. Smyth, M.J. et al. (1996) J. Leukoc. Biol. 60:555.
- 3. Froelich, C.J. (2004) in Handbook of Proteolytic Enzymes, Barrett, A.J. et al. eds. pp. 1549.
- 4. Schmid, J. and C. Weissman (1987) J. Immunol. 139:250.
- 5. Caputo, A. et al. (1988) J. Biol. Chem. 263:6363.
- 6. Trapani, J.A. et al. (1988) Proc. Natl. Acad. Sci. USA 85:6924.

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