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Granzyme B (D2H2F) Rabbit mAb (PE Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P10144	Entrez-Gene Id: 3002
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Granzyme B (D2H2F) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Granzyme B protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human Granzyme B protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Granzyme B (D2H2F) Rabbit mAb #17215.	
Background	Granzymes are a family of serine proteases expressed by cytotoxic T lymphocytes and natural killer (NK) cells and are key components of immune responses to pathogens and transformed cells (1). Granzymes are synthesized as zymogens and are processed into mature enzymes by cleavage of a leader sequence. They are released by exocytosis in lysosome-like granules containing perforin, a membrane pore-forming protein. Granzyme B has the strongest apoptotic activity of all the granzymes as a result of its caspase-like ability to cleave substrates at aspartic acid residues thereby activating procaspases directly and cleaving downstream caspase substrates (2,3).	
Background References	<ol style="list-style-type: none"> 1. Trapani, J.A. (2001) <i>Genome Biol.</i> 2, REVIEWS 3014. 2. Lord, S.J. et al. (2003) <i>Immunol. Rev.</i> 193, 31-8. 3. Trapani, J.A. and Sutton, V.R. (2003) <i>Curr. Opin. Immunol.</i> 15, 533-43. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human M: Mouse
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