Perforin Antibody	T E C		
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For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniProt ID: Entrez-Gene Id: #P10820 70-75 18646 W Endogenous Rabbit M **Product Usage** Application Dilution Information 1.1000 Western Blotting Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody. Specificity/Sensitivity Perforin Antibody detects endogenous levels of total Perforin protein. Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding leucine 349 of mouse perforin. 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). Perforin is a pore-forming protein that facilitates the entry of cytotoxic serine proteases, such as granzymes, into target cells (4). Perforin is primarily expressed in cytotoxic T lymphocytes and NK cells. **Background References** 1. Trapani, J.A. (2001) Genome Biol. 2, REVIEWS 3014. 2. Lord, S.J. et al. (2003) Immunol. Rev. 193, 31-8. 3. Trapani, J.A. and Sutton, V.R. (2003) Curr. Opin. Immunol. 15, 533-43. 4. Catalfamo, M. and Henkart, P.A. (2003) Curr. Opin. Immunol. 15, 522-7. **Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot). Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween 20 at 4°C with gentle shaking, overnight. Applications Key W: Western Blotting **Cross-Reactivity Key** M: Mouse Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information. **Limited Uses** Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect. Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a

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