

Purified Rabbit Anti-rat Perforin

Catalog Number: TP251

Lot Number: 061317

Content: Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

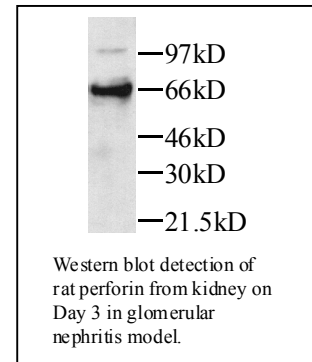
(Reconstitute to 1 mg/ml by adding 200 µl PBS)

Product Description and Usage: For research use only. This neutralizing polyclonal antibody, which reacts with both rat and mouse perforin, was generated using *E. coli*-expressed rat perforin as an immunogen. The tested titer for Western blot is 1:1,000.

Cross-reactivity to perforin of other species has not been determined.

Storage Condition: 4 C for short term storage or -20 C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: Perforin (pore-forming protein) is originally cloned from mouse cytotoxic T-lymphocyte (CTL)^{1,2}. It is a 555-amino acid protein with a 21-amino acid signal peptide. Perforin is a cytolytic mediator produced by killer lymphocytes, and is stored in and released by cytoplasmic granules. Perforin is involved in the killing mediated by CTL which represents an



important mechanism in the immune defense against tumors and virus infections^{3,4}.

Reference:

1. Lichtenheld, M.G. et al. (1988) Structure and function of human perforin. *Nature* 335:448-451
2. Kwon, B.S. et al. (1989) The structure of the mouse lymphocyte pore-forming protein perforin. *Biochem Biophys Res Commun* 158:1-10
3. Lowin, B. et al. (1992) Perforin and its role in T lymphocyte-mediated cytotoxicity. *Experientia* 48:911-920
4. Liu, C.C. et al. (1995) Perforin: structure and function. *Immunol Today* 16:194-201