

Perforin Polyclonal Antibody

Catalog NumberPA5-17431

Product data sheet

| Details            |   | Species Reactivity   |         |
|--------------------|---|--|---------|
| Size               | 100 µL  | Species reactivity   | Mouse   |
| Host/Isotope       | Rabbit / IgG  | Tested Applications  |         |
| Class              | Polyclonal  | Dilution *   |         |
| Type               | Antibody  | Western Blot (WB)  | 1:1,000 |
| Immunogen          | Synthetic peptide corresponding to residues surrounding leucine 349 of mouse perforin | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |         |
| Conjugate          | Unconjugated  |  |         |
| Form               | Liquid  |  |         |
| Concentration      | 113 µg/mL   |  |         |
| Purification       | Affinity chromatography   |  |         |
| Storage buffer     | 0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol                      |  |         |
| Contains           | no preservative   |  |         |
| Storage Conditions | -20°C   |  |         |

Product specific information

It is not recommended to aliquot this antibody.

Background/Target Information

Perforin is one of the major cytolytic proteins of cytolytic granules. Perforin is a cytolytic mediator and is stored in and released by cytoplasmic granules. Moreover, perforin is involved in immune defense against tumors and virus infections as mediated by cytotoxic lymphocytes. Perforin is a 555 amino acid protein with a 21 amino acid signal peptide, and has a molecular weight of 70 to 75 kD. Perforin is a pore forming protein with a mechanism of transmembrane channel formation similar to C9, and homology between perforin and C9 have been demonstrated. Studies show that perforin is expressed only in killer cell lines and not in helper T lymphocytes or other tumor cells tested. Perforin is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in the perforin gene cause familial hemophagocytic lymphohistiocytosis type 2 (HPLH2), a rare and lethal autosomal recessive disorder of early childhood. Alternative splicing results in multiple transcript variants of perforin.

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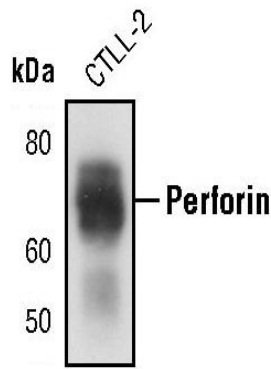
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Perforin Antibody (PA5-17431) in WB

Western blot analysis of Perforin in extracts from CTLL-2 cells using Perforin polyclonal antibody (Product # PA5-17431).



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