

For Research Use Only

Perforin Polyclonal antibody

Catalog Number: 14580-1-AP **8 Publications**



Basic Information

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|---|--|--|
| Catalog Number: 14580-1-AP | GenBank Accession Number: BC063043 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 500 µg/ml by Nanodrop; | GeneID (NCBI): 5551 | Recommended Dilutions: WB 1:5000-1:50000 |
| Source: Rabbit | Full Name: perforin 1 (pore forming protein) | |
| Isotype: IgG | Calculated MW: 61 kDa | |
| Immunogen Catalog Number: AG6060 | Observed MW: 70-75 kDa | |

Applications

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|--|---|
| Tested Applications: FC, WB, ELISA | Positive Controls: WB : CTLL-2 cells, mouse kidney tissue |
| Cited Applications: FC, IF, WB | |
| Species Specificity: human, mouse | |
| Cited Species: human, chicken, mouse | |

Background Information

Perforin 1 (PRF1) is one of the major cytolytic proteins of cytolytic granules. It is known to be a crucial effector molecule in cytolytic T lymphocyte and natural killer cell-mediated cytotoxicity. This protein has structural and functional similarities to complement component C9. Like C9, this protein creates transmembrane tubules and is capable of lysing nonspecifically a variety of target cells. Defects in PRF1 are the cause of familial hemophagocytic lymphohistiocytosis type 2 (FHL2), which is characterized by immune dysregulation with hypercytokinemia and defective natural killer cell function. (PMID: 2417226; 7774276; 2783486; 10583959)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|-----------------------|-------------|
| Xiaoyin Wang | 33068832 | Mol Immunol | WB |
| Chengguo Li | 34625086 | J Exp Clin Cancer Res | IF |
| Cui-Ying Chen | 23164636 | Res Vet Sci | WB |

Storage

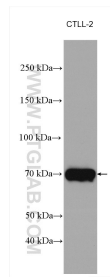
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

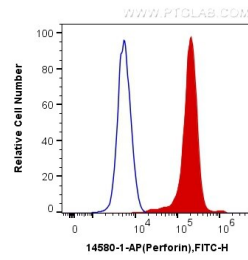
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Selected Validation Data



CTLL-2 cells were subjected to SDS PAGE followed by western blot with 14580-1-AP (Perforin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 NK-92 were intracellularly stained with 0.4 ug Anti-Human Perforin (14580-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug isotype control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).