



# Perforin Rabbit mAb

<b>Catalog No</b>	YP-rAb-17074
<b>Isotype</b>	IgG
<b>Reactivity</b>	Mouse,Rat
<b>Applications</b>	WB,IF,IP,ELISA
<b>Gene Name</b>	PRF1
<b>Protein Name</b>	Perforin-1
<b>Purification Process</b>	Protein A
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200;
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-15° C to -25° C/1 year(Do not lower than -25° C)
<b>Synonyms</b>	Cytolysin ; FLH2 ; HPLH2 ; Lymphocyte pore-forming protein ; P1 ; PERF_HUMAN ; perforin 1 ; pore forming protein ; Perforin 1 ; Perforin-1 ; PFP ; PGFL ; PIGF ; PIGF-2 ; PLGF ; Pore forming protein ; prf1 ; SHGC-10760
<b>Observed Band</b>	62kD
<b>Calculated Molecular Weight</b>	62kD
<b>Cell Pathway</b>	Cytoplasmic, Membranous
<b>Tissue Specificity</b>	Spleen
<b>Function</b>	Disease:Defects in PRF1 are the cause of familial hemophagocytic lymphohistiocytosis type 2 (FHL2) [MIM:603553]; also known as HPLH2. Familial hemophagocytic lymphohistiocytosis (FHL) is a genetically heterogeneous, rare autosomal recessive disorder. It is characterized by immune dysregulation with hypercytokinemia and defective natural killer cell function. The clinical features of the disease include fever, hepatosplenomegaly, cytopenia, hypertriglyceridemia, hypofibrinogenemia, and neurological abnormalities ranging from irritability and hypotonia to seizures, cranial nerve deficits, and ataxia. Hemophagocytosis is a prominent feature of the disease, and a non-malignant infiltration of macrophages and activated T lymphocytes in lymph nodes, spleen, and other organs is also found.,Function:In the presence of calcium, perforin polymerizes into





transmembrane tubules and is capable of lysing non-specifically a variety of target cells.,induction:Repressed by contact with target cells.,online information:Perforin entry,online information:PRF1 mutation db,similarity:Belongs to the complement C6/C7/C8/C9 family.,similarity:Contains 1 C2 domain.,similarity:Contains 1 EGF-like domain.,similarity:Contains 1 MACPF domain.,subcellular location:Cytoplasmic granules of cytolytic T-lymphocytes.,

### Background

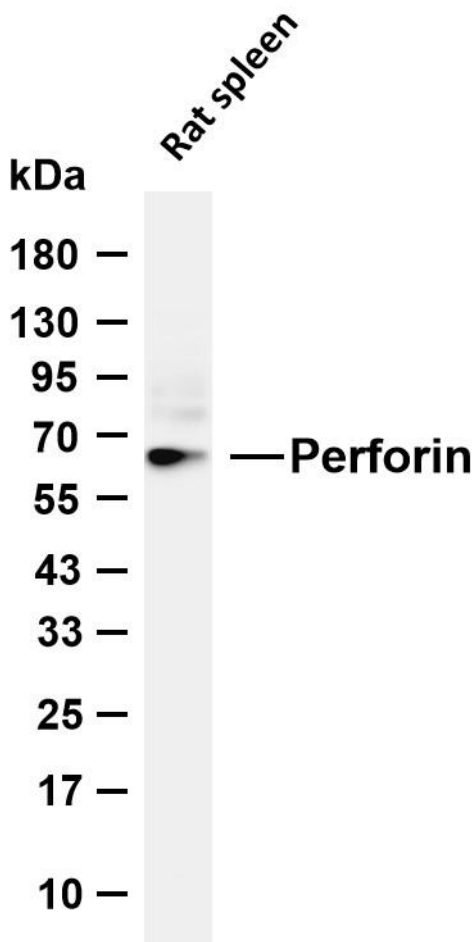
The protein encoded by this gene has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in this 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 encoding the same protein. [provided by RefSeq, Jul 2008],

### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Perforin antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Predicted band size: 62kDa Observed band size: 62kDa

