

For Research Use Only

# Perforin Recombinant antibody, PBS Only (Detector)

Catalog Number: 83977-1-PBS



## Basic Information

<b>Catalog Number:</b> 83977-1-PBS	<b>GenBank Accession Number:</b> BC063043	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 5551	<b>CloneNo.:</b> 241009C10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P14222	
<b>Isotype:</b> IgG	<b>Full Name:</b> perforin 1 (pore forming protein)	
<b>Immunogen Catalog Number:</b> AG6060	<b>Calculated MW:</b> 61 kDa	
	<b>Observed MW:</b> 65-70 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human, mouse

## Background Information

Perforin (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)

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
**Storage Buffer:**  
PBS only

For technical support and original validation data for this product please contact:

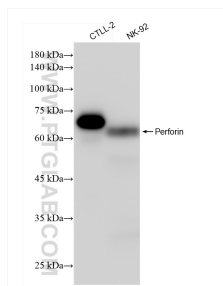
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

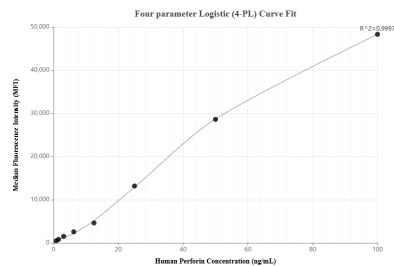
W: [ptgcn.com](http://ptgcn.com)

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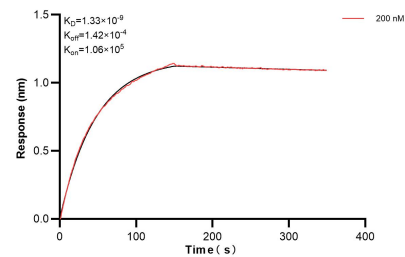
## Selected Validation Data



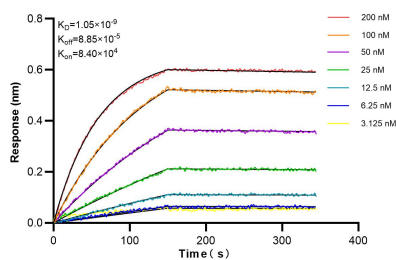
Various lysates were subjected to SDS PAGE followed by western blot with 83977-1-RR (Perforin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83977-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00872-1, Perforin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83977-2-PBS. Detection antibody: 83977-1-PBS. Standard: Ag6060. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assay of 83977-1-PBS against Human Perforin was performed. The affinity constant is 1.33 nM.



Biolayer interferometry (BLI) kinetic assays of 83977-1-RR against Human Perforin were performed. The affinity constant is 1.05 nM.