

For Research Use Only

Perforin Recombinant antibody, PBS Only (Detector)

Catalog Number: 83977-1-PBS



Basic Information

Catalog Number: 83977-1-PBS	GenBank Accession Number: BC063043	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5551	CloneNo.: 241009C10
Source: Rabbit	UNIPROT ID: P14222	
Isotype: IgG	Full Name: perforin 1 (pore forming protein)	
Immunogen Catalog Number: AG6060	Calculated MW: 61 kDa	
	Observed MW: 65-70 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

83977-1-PBS targets Perforin as part of a matched antibody pair:

MP00872-1: 83977-2-PBS capture and 83977-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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)

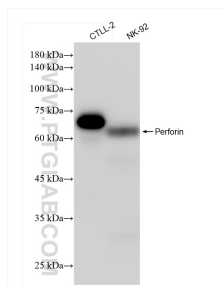
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only

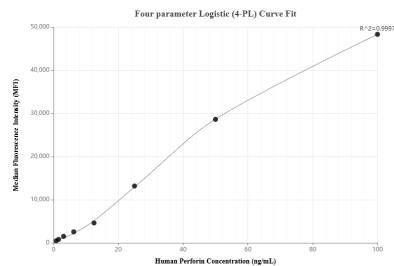
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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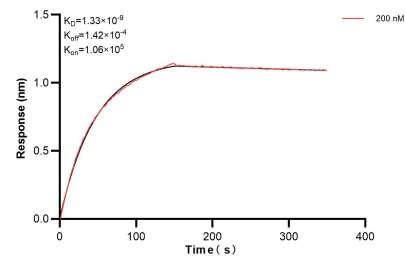
Selected Validation Data



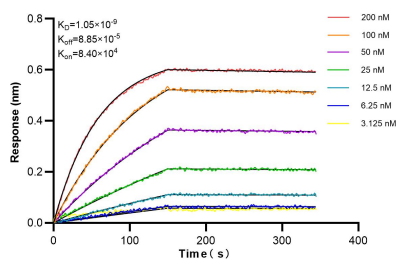
Various lysates were subjected to SDS PAGE followed by western blot with 83977-1-RR (Perforin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83977-1-PBS in a different storage buffer formulation.



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.