

Datasheet for ABIN6940388

**anti-Perforin 1 antibody (AA 413-552)**[Go to Product page](#)**3** Images

## Overview

Quantity:	100 µg
Target:	Perforin 1 (PRF1)
Binding Specificity:	AA 413-552
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Perforin 1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Coating (Coat), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant human Perforin-1 protein fragment (around aa 413-552) (exact sequence is proprietary)
Clone:	PRF1-2470
Isotype:	IgG2c kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	Perforin 1 (PRF1)
Alternative Name:	PRF1 ( <a href="#">PRF1 Products</a> )
Background:	Perforin is a pore-forming protein that leads to osmotic lysis of the target cells and

## Target Details

subsequently enables granzymes to enter the target cells and activate apoptosis. Perforin 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. It is one of the main cytolytic proteins of cytolytic granules, and 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. The expression of perforin is reportedly upregulated in activated CD8+ T-cells, natural killer cells and some CD4+ T-cells.

Molecular Weight: 75kDa

Gene ID: 5551

UniProt: [P14222](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#)

## Application Details

Application Notes: Positive Control: HDLM-2 cells. Human spleen tissue (IHC).  
Known Application: ELISA (For coating, order Ab without BSA), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

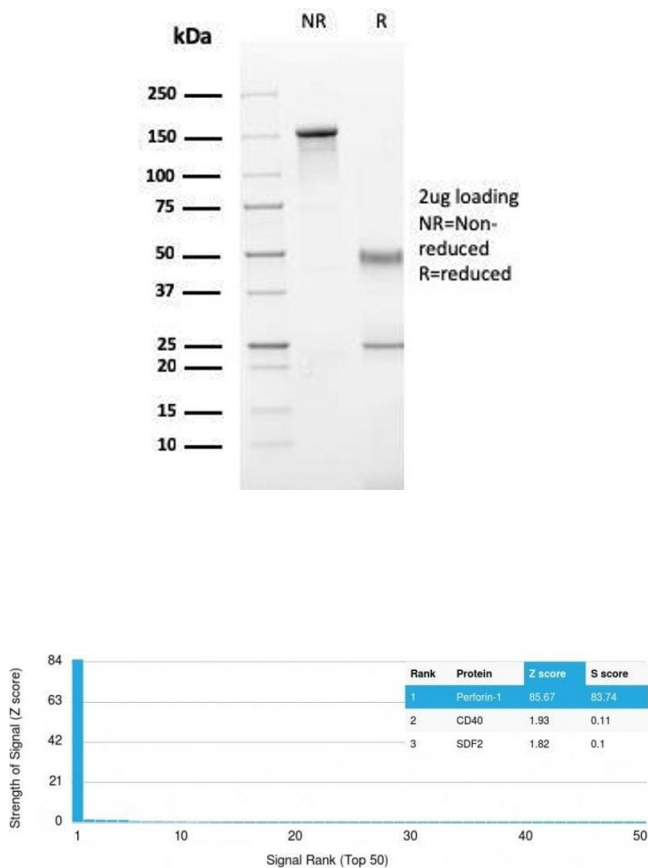
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

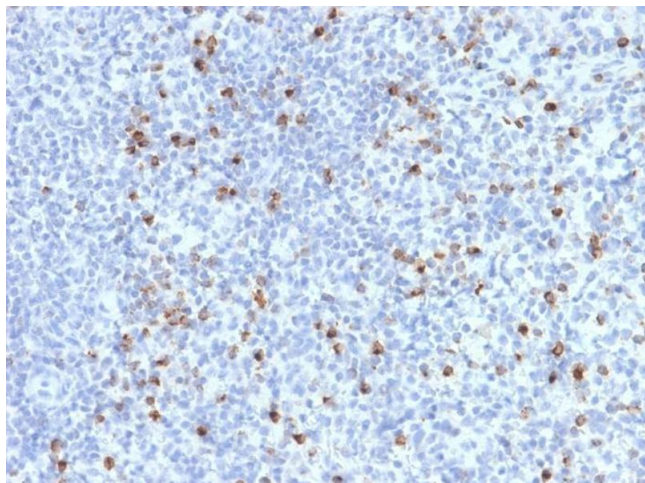


SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified Perforin-1 Monospecific Mouse Monoclonal Antibody (PRF1/2470). Confirmation of Integrity and Purity of Antibody.

Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Perforin-1 Monospecific Mouse Monoclonal Antibody (PRF1/2470). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Spleen stained with Perforin-1 Monospecific Mouse Monoclonal Antibody (PRF1/2470).