

PRF1 Antibody

Catalog No: #32003

Package Size: #32003-1 50ul #32003-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

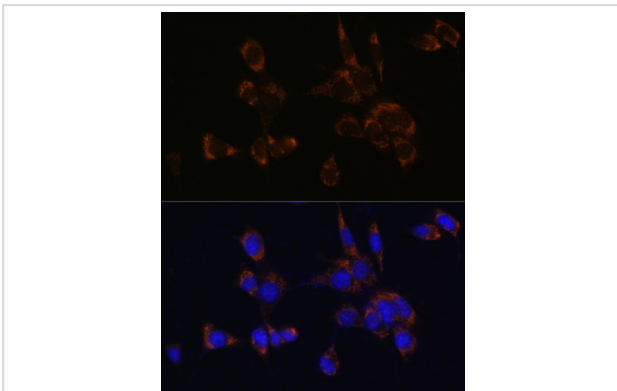
Description

Product Name	PRF1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total PRF1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PRF1.
Target Name	PRF1
Other Names	PRF1; FLH2; HPLH2; MGC65093; P1
Accession No.	Swiss-Prot:P14222NCBI Gene ID:5551
Uniprot	P14222
GeneID	5551;
SDS-PAGE MW	61KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

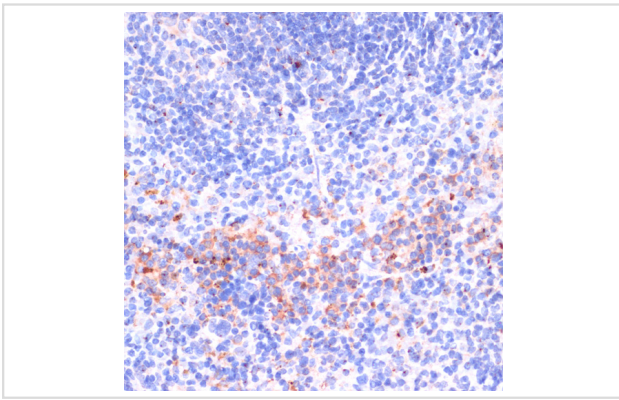
Application Details

WB □ 1:500 - 1:2000 IHC □ 1:50 - 1:200 IF □ 1:50 - 1:200

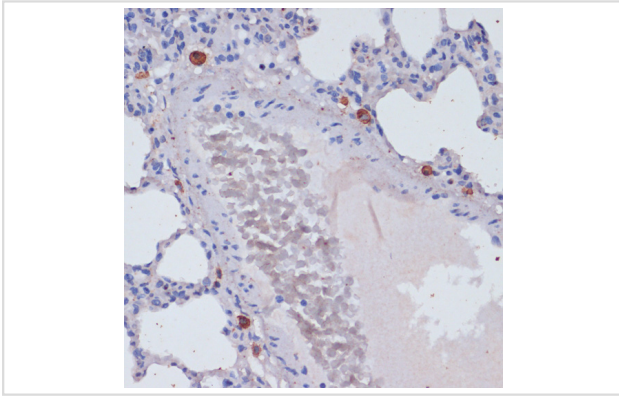
Images



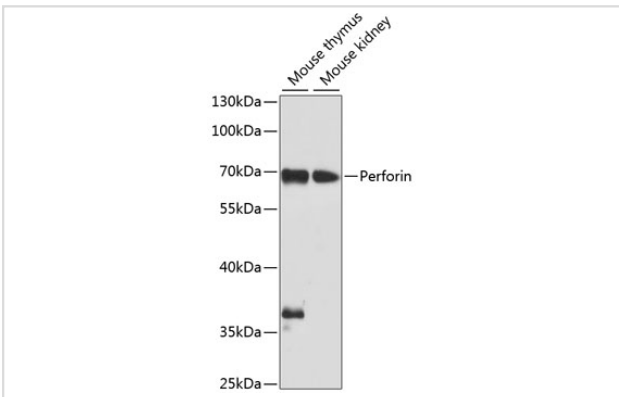
Immunofluorescence analysis of NIH/3T3 cells using Perforin at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunohistochemistry of paraffin-embedded mouse spleen using Perforin at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded rat lung using Perforin at dilution of 1:100 (40x lens).



Western blot analysis of extracts of various cell lines, using Perforin at 1:1000 dilution.

Background

Granzymes are a family of serine proteases expressed by cytotoxic T lymphocytes and natural killer (NK) cells and are key components of immune responses to pathogens and transformed cells (1). Granzymes are synthesized as zymogens and are processed into mature enzymes by cleavage of a leader sequence. They are released by exocytosis in lysosome-like granules containing perforin, a membrane pore-forming protein. Granzyme B has the strongest apoptotic activity of all the granzymes as a result of its caspase-like ability to cleave substrates at aspartic acid residues thereby activating procaspases directly and cleaving downstream caspase substrates (2,3).

Perforin is a pore-forming protein that facilitates the entry of cytotoxic serine proteases, such as granzymes, into target cells (4). Perforin is primarily expressed in cytotoxic T lymphocytes and NK cells.

Note: This product is for in vitro research use only