Mouse Perforin-1 Monoclonal Antibody | anti-PRF1 antibody

Perforin-1 (Pore Forming Protein) (Apoptosis Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214681	**Mouse**	**Human. Others not known.**	**Immunohistochemistry**

PRODUCT SYNONYMS

Perforin-1; Monoclonal Antibody; Perforin-1 (Pore Forming Protein) (Apoptosis Marker); Cytolysin; FLH2; HPLH2; Lymphocyte pore-forming protein; PRF1 (pore forming protein 1); PFP; PGFL; PIGF; PIGF-2; PLGF; anti-PRF1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	PRF1/2468
Specificity	Perforin is a pore-forming protein that leads to osmotic lysis of the target cells and 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 cytolysis. 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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	555
Applicable Applications for anti-PRF1 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant human Perforin-1 protein fragment (around aa 413-552)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	10q22.1
Positive Control	HDLM-2 Cells. Spleen
Preparation and Storage	Antibody with azide store at 2-8°C. Antibody is stable for 24 months. Non hazardous. No msds requiresd.

IMAGES

SDS-PAGE
SDS-PAGE Analysis of Purified Perforin-1 mouse Monoclonal Antibody (PRF-2468). Confirmation of Purity and Integrity of Antibody.

Application Data
Analysis of Protein Array containing more than 19, 000 full-length human proteins using Perforin-1 Mouse Monoclonal Antibody (PRF1/2468).Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Spleen stained with Perforin-1 Mouse Monoclonal Antibody (PRF1/2468).

ADDITIONAL INFORMATION

References	Bittmann I, et al. Fas/FasL and perforin/granzyme pathway in acute rejection and diffuse alveolar damage after allogeneic lung transplantation- a human biopsy study. Virchows Arch. 2004; 445:375-81.

NCBI AND UNIPROT INFORMATION

NCBI GI #	133908621
NCBI GeneID	5551
NCBI Accession #	NP_001076585.1
NCBI GenBank Nucleotide #	NM_001083116.2
UniProt Accession #	P14222; Q59F57; Q86WX7; B2R6X4
Molecular Weight	75kDa
NCBI Official Full Name	perforin-1
NCBI Official Synonym Full Names	perforin 1
NCBI Official Symbol	PRF1
NCBI Official Synonym Symbols	P1; PFP; HPLH2
NCBI Protein Information	perforin-1
UniProt Protein Name	Perforin-1
UniProt Gene Name	**PRF1**
UniProt Synonym Gene Names	PFP; P1; PFP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/perforin-1-antibody-clone-prf1-2468-immunohistochemistry-elisa/214681