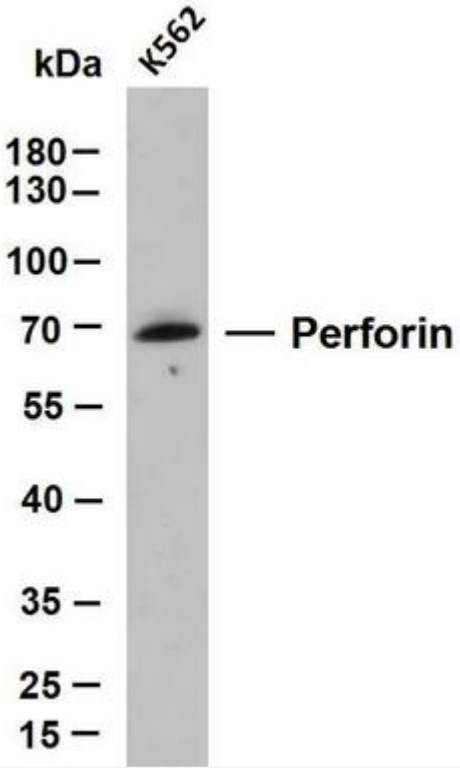
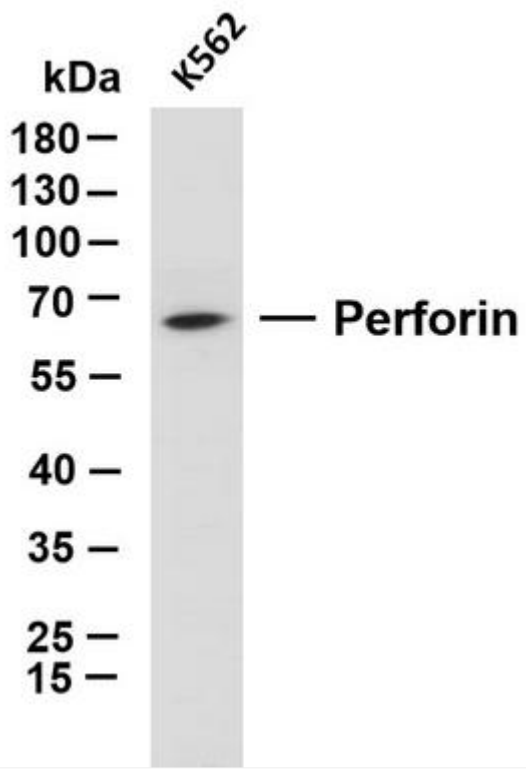
Perforin (ABT236R) Rabbit mAb

Catalog No	YP-rAb-18292
Isotype	IgG
Reactivity	Human
Applications	IHC,WB,ELISA
Gene Name	PRF1
Protein Name	Perforin-1
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of Perforin
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:100-500; WB 1:500-1000; ELISA 1:5000-20000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	Cytolysin ; FLH2 ; HPLH2 ; Lymphocyte pore-forming protein ; P1 ; PERF_HUMAN ; perforin 1 ; pore forming protein ; Perforin 1 ; Perforin-1 ; PFP ; PGFL ; PIGF ; PIGF-2 ; PLGF ; Pore forming protein ; prf1 ; SHGC-10760
Observed Band	
Calculated Molecular Weight	61kD
Cell Pathway	Cytoplasmic, Membranous
Tissue Specificity	Spleen
Function	Disease:Defects in PRF1 are the cause of familial hemophagocytic lymphohistiocytosis type 2 (FHL2) [MIM:603553]; also known as HPLH2. Familial hemophagocytic lymphohistiocytosis (FHL) is a genetically heterogeneous, rare autosomal recessive disorder. It is characterized by immune dysregulation with hypercytokinemia and defective natural killer cell function. The clinical features of the disease include fever, hepatosplenomegaly, cytopenia, hypertriglyceridemia, hypofibrinogenemia, and neurological abnormalities ranging from irritability and hypotonia to seizures, cranial nerve deficits, and ataxia. Hemophagocytosis is a prominent feature of the disease, and a non-malignant infiltration of macrophages and activated T lymphocytes in lymph nodes, spleen, and other organs is also found.,Function:In the presence of calcium, perforin polymerizes into

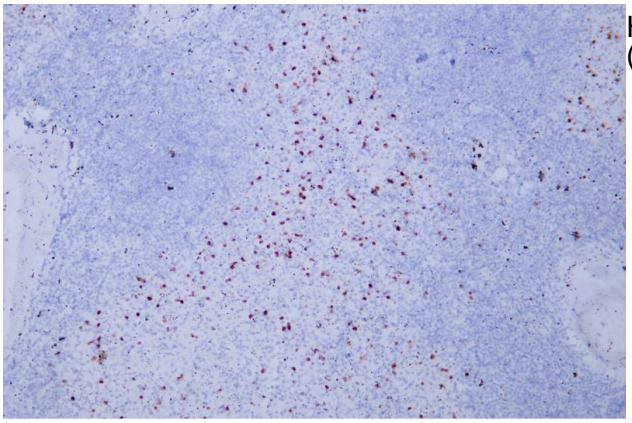
	transmembrane tubules and is capable of lysing non-specifically a variety of target cells.,induction:Repressed by contact with target cells.,online information:Perforin entry,online information:PRF1 mutation db,similarity:Belongs to the complement C6/C7/C8/C9 family.,similarity:Contains 1 C2 domain.,similarity:Contains 1 EGF-like domain.,similarity:Contains 1 MACPF domain.,subcellular location:Cytoplasmic granules of cytolytic T-lymphocytes.,
Background	The protein encoded by this gene 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. This protein is one of the main cytolytic proteins of cytolytic granules, and it 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. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



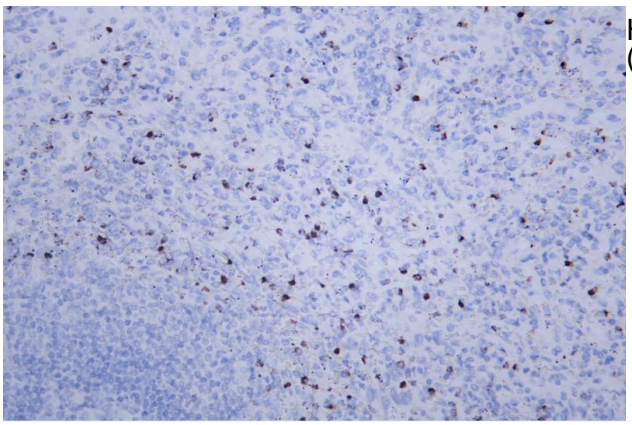
Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Perforin (ABT236R) rabbit antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 61kDa Observed band size: 70kDa



K562 whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Perforin (ABT236R) rabbit antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 61kDa Observed band size: 61kDa



Human spleen tissue was stained with anti-Perforin (ABT236R) rabbit Antibody



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