



Mouse Anti-Human Perforin monoclonal antibody, clone JID757 (CABT-L2825)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human Perforin
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID757
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Spleen
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Perforin is a pore-forming protein found in the granules of cytotoxic T lymphocytes and natural killer cells, which functions to enable granzymes to enter the target cells and activate apoptosis. Perforin expression is upregulated in activated CD8+ T-cells, and these cells have been identified to have a major influence in Th1-associated inflammatory skin diseases. It has been suggested that perforin plays a role in alloimmunity, being involved in both the cytolytic process of rejection as well as downregulation of the T-cell mediated responses associated with the alloimmune response. Perforin-mediated cytotoxicity has also been linked to a number of autoimmune diseases.
Keywords	PRF1;perforin 1 (pore forming protein);P1;PFP;FLH2;PFN1;HPLH2;perforin-1;cytolysin;lymphocyte pore forming protein;lymphocyte pore-forming protein;

GENE INFORMATION

Gene Name	PRF1 perforin 1 (pore forming protein) [Homo sapiens (human)]
Official Symbol	PRF1
Synonyms	PRF1; perforin 1 (pore forming protein); P1; PFP; FLH2; PFN1; HPLH2; perforin-1; cytolysin; lymphocyte pore forming protein; lymphocyte pore-forming protein;
Entrez Gene ID	5551
Protein Refseq	NP_001076585
UniProt ID	P14222
Chromosome Location	10q22
Pathway	Allograft Rejection; Allograft rejection; Apoptosis; Autoimmune thyroid disease; Caspase cascade in apoptosis; Downstream signaling in naive CD8+ T cells; Graft-versus-host disease; IL12 signaling mediated by STAT4;
Function	calcium ion binding; protein binding; wide pore channel activity;