

## ARG80173 Human Perforin ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG80173-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80173-002	Standard (Lyophilized)	2 X 2.5 ng/vial	4°C
ARG80173-003	Standard diluent buffer	20 ml	4°C
ARG80173-004	Antibody conjugate concentrate	400 µl	4°C
ARG80173-005	Antibody diluent buffer	16 ml	4°C
ARG80173-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80173-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80173-008	20X Wash buffer	50 ml	4°C
ARG80173-009	TMB substrate	12ml	4°C (Protect from light)
ARG80173-010	STOP solution	12ml	4°C
ARG80173-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG80173 Human Perforin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Perforin in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human IL-1 beta, IL-2, IL-3, IFN- gamma, TNF alpha, Fas, Fas-L, TRAIL
Target Name	Perforin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	20 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	39 - 2500 pg/ml

Sample Volume	100 µl
Precision	CV: less than 10%
Alternate Names	FLH2; P1; PFN1; Cytolysin; HPLH2; PFP; Lymphocyte pore-forming protein; Perforin-1

## Application Instructions

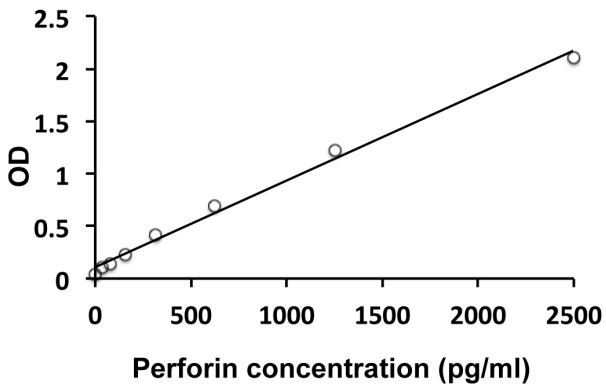
Assay Time	4 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 5551 Human</a> <a href="#">Swiss-port # P14222 Human</a>
Gene Symbol	PRF1
Gene Full Name	perforin 1 (pore forming protein)
Background	Perforin with structural similarities to complement component C9 that is important in immunity. This protein forms membrane pores that allow the release of granzymes and subsequent cytolysis of target cells. Whether pore formation occurs in the plasma membrane of target cells or in an endosomal membrane inside target cells is subject to debate. Mutations in this gene are associated with a variety of human disease including diabetes, multiple sclerosis, lymphomas, autoimmune lymphoproliferative syndrome (ALPS), aplastic anemia, and familial hemophagocytic lymphohistiocytosis type 2 (FHL2), a rare and lethal autosomal recessive disorder of early childhood. [provided by RefSeq, Aug 2017]
Function	Perforin plays a key role in secretory granule-dependent cell death, and in defense against virus-infected or neoplastic cells. Plays an important role in killing other cells that are recognized as non-self by the immune system, e.g. in transplant rejection or some forms of autoimmune disease. Can insert into the membrane of target cells in its calcium-bound form, oligomerize and form large pores. Promotes cytolysis and apoptosis of target cells by facilitating the uptake of cytotoxic granzymes. [UniProt]
Highlight	Related products: <a href="#">Perforin antibodies; Perforin ELISA Kits;</a> Related news: <a href="#">Examining CTL/NK-mediated cytotoxicity by ELISA</a> New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
Research Area	Immune System kit
PTM	N-glycosylated.



ARG80173 Human Perforin ELISA Kit standard curve image

ARG80173 Human Perforin ELISA Kit results of a typical standard run with optical density reading at 450 nm.

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