

ARG82672 Monkey Perforin ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82672 Monkey Perforin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Monkey Perforin in serum, plasma and cell culture supernatants.
Tested Reactivity	Mk
Tested Application	ELISA
Target Name	Perforin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	20 pg/ml
Sample Type	Serum, plasma and 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	~ 3.5 hours
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Properties

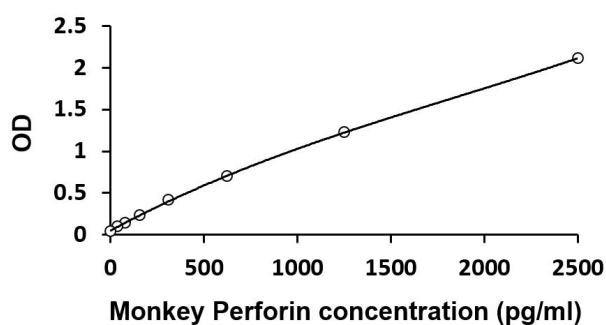
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory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

Bioinformation

Gene Symbol	PRF1
Gene Full Name	perforin 1 (pore forming protein)
Background	This gene encodes a protein 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 cytotoxicity 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	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	<p>Related products: Perforin antibodies; Perforin ELISA Kits;</p> <p>Related news: Examining CTL/NK-mediated cytotoxicity by ELISA</p> <p>New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>
PTM	N-glycosylated. [UniProt]
Cellular Localization	Cytoplasmic granule lumen. Secreted. Cell membrane; Multi-pass membrane protein. Endosome lumen. Note=Stored in cytoplasmic granules of cytolytic T-lymphocytes and secreted into the cleft between T-lymphocyte and target cell. Inserts into the cell membrane of target cells and forms pores. Membrane insertion and pore formation requires a major conformation change. May be taken up via endocytosis involving clathrin-coated vesicles and accumulate in a first time in large early endosomes. [UniProt]

Images



ARG82672 Monkey Perforin ELISA Kit standard curve image

ARG82672 Monkey Perforin ELISA Kit results of a typical standard run with optical density reading at 450 nm.