

Human Perforin ELISpot Kit

PRODUCT SPECIFICATIONS

Catalogue N°	856.141.001PC - 1 x 96 Discovery (pre-coated plate) 856.141.002PC - 2 x 96 (pre-coated plates) 856.141.005PC - 5 x 96 (pre-coated plates)
Target species	Human
Specificity	Recognizes natural human Perforin
Incubation	3h after cell stimulation
Kit Content	Diaclone Pre-coated ELISpot kits include precoated PVDF plates, Detection antibody, Alkaline phosphatase conjugate, BSA, BCIP/NBT ready-to-use substrate buffer.

REFERENCES

Van Gulck, E. R. et al, J. Virol, 2008; 82(7): 3561-3573. - [Pubmed link](#)

BACKGROUND

Perforin is a 70kDa protein containing 534 amino acid.

Perforin is involved in the killing function by CTLs and NKs. Upon degranulation, perforin inserts itself into the target cell's plasma membrane, forming a pore. It leads to osmotic lysis of the target cells and subsequently enables granzymes to enter the target cells and activate apoptosis, the cell death program.

Perforin has structural and functional similarities to complement component 6, 7, 8 and 9 (C6, C7, C8, 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 cytotoxicity.

Its role in the immune response against tumors and virus infection has been demonstrated.

Version 7 - 01.21

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