


Human Granzyme B ELISpot Kit

PRODUCT SPECIFICATIONS

Catalogue N°	856.131.001PC - 1 x 96 Discovery (pre-coated plate) 856.131.002PC - 2 x 96 (pre-coated plates) 856.131.005PC - 5 x 96 (pre-coated plates)
Target species	Human
Specificity	Recognizes natural human Granzyme B
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

Biagi E. et al., Blood, 2005; 105(6): 2436 - 2442 - [Pubmed link](#) 

Godard B. et al., Hum. Immunol., 2004; 65(11): 1307-18 - [Pubmed link](#) 

BACKGROUND

Granzyme B belongs to the granzymes family, which are exogenous serine proteinases. Granzymes are produced by cytotoxic lymphocytes (CTLs) and NK cells.

Activated cytotoxic T lymphocytes and NK cells are important effectors in immunologic defenses against tumor cell proliferation, viral infection and transplant tissue. They induce apoptosis via multiple mechanism thanks to granules exocytosis. Following adhesion of the CTL on the target cell (via CTL-receptor and antigen-presenting MHC molecules), CTLs secrete cytoplasmic granules containing granules and enzymes including granzymes and perforine (pore-forming protein). Granules are then released in the intercellular space, perforine forms a transmembrane pore. Through these pores, granzymes enter the cytosol of the target cell.

Granzyme B is the most powerful pro-apoptotic member of granzyme family. Granzyme B activates the intracellular caspases inducing finally the death of the cell.

Granzymes are diagnostics markers for many disorders (viral infection, lymphoma's and carcinoma's, auto-immune disease and rejection of transplant).

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6 rue Dr Jean-François-Xavier Girod
BP 1985
25020 Besançon cedex
France

Tel : +33 (0)3 81 41 38 38
Fax : +33 (0)3 81 41 36 36

Email : Info@diaclone.com
www.diaclone.com