PeliSPOT ä human IFN-gamma

Specification sheet

Order number	M2533 kit and M9433 pair
Specificity	The monoclonal antibodies in this kit / pair recognize human Interferon-gamma
Intended use	**For research use only**
Application	Interferon-gamma (IFN-γ) is produced by CD8, NK, γδ and T helper cells under certain conditions of activation. IFN-γ is involved in several immune responses including activation of macrophages to enhance phagocytosis and tumor killing capability, activation and growth enhancement of cytolytic T-cells and NK-cells and induction of class II MHC antigen and Fcγ receptor on macrophages and many other cell types. IFN-γ also regulates humoral immune responses: it induces immunoglobulin secretion by activated B-cells stimulated with IL-2 and potentiates IL-4 induced proliferation of human B-cells. IFN-γ has documented antiviral and antiprotozoal activities, although IFN-α and IFN-β seem to have more potent antiviral activities than IFN-γ. This PeliSPOT™ human IFN-γ kit has been developed for reproducible and specific enumeration of human IFN-γ secreting cells.
Assay procedure	See PeliSPOT™ Assay Procedure (kit) or PeliSPOT Pair Product Information
Storage and stability	As indicated on the box label
Cell incubation	Optimal conditions should be determined by the researcher. A typical incubation period for IFN-γ is 20 hours.
Positive assay control	Ready for use (kit only).
Positive secretion control	Polyclonal cell activation with PMA and Ionomycin is recommended. Concentrations are indicated in the PeliSPOT™ assay protocol.
Spot counting	Enumeration of spots is preferably done with the A.EL.VIS spot analysers, Eli.Scan or Eli.Expert.

Recommended parameter settings for software version V3.3 and up:

ROI	=	70%	Invert	=	off
Brightness	=	65%	Slope	=	X Low
MinSize	=	5	Development	=	N
MaxSize	=	500	Separation	=	20
Minintensity	=	10	Pollution	=	On
MinCircularity	=	100	Overdevelop	=	On

Typical results after 20 hours incubation

100,000 cells per well, non-stimulated

800 cells per well, pma/iono stimulated

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