

# PeliSPOTä

## human IFN-gamma

### Specification sheet

|                                   |   |
|-----------------------------------|---|
| <b>Order number</b>               | M2533 kit and M9433 pair  |
| <b>Specificity</b>                | The monoclonal antibodies in this kit / pair recognize human Interferon-gamma   |
| <b>Intended use</b>               | <b>For research use only</b>  |
| <b>Application</b>                | Interferon-gamma (IFN- $\gamma$ ) is produced by CD8, NK, $\gamma\delta$ and T helper cells under certain conditions of activation.<br>IFN- $\gamma$ 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 Fc $\gamma$ receptor on macrophages and many other cell types. IFN- $\gamma$ 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- $\gamma$ has documented antiviral and antiprotozoal activities, although IFN- $\alpha$ and IFN- $\beta$ seem to have more potent antiviral activities than IFN- $\gamma$ . This PeliSPOT™ human IFN- $\gamma$ kit has been developed for reproducible and specific enumeration of human IFN- $\gamma$ secreting cells. |
| <b>Assay procedure</b>            | See PeliSPOT™ Assay Procedure (kit) or PeliSPOT Pair Product Information  |
| <b>Storage and stability</b>      | As indicated on the box label   |
| <b>Cell incubation</b>            | Optimal conditions should be determined by the researcher. A typical incubation period for IFN- $\gamma$ is 20 hours.   |
| <b>Positive assay control</b>     | Ready for use (kit only).   |
| <b>Positive secretion control</b> | Polyclonal cell activation with PMA and Ionomycin is recommended. Concentrations are indicated in the PeliSPOT™ assay protocol.   |
| <b>Spot counting</b>              | Enumeration of spots is preferably done with the A.EL.VIS spot analysers, Eli.Scan or Eli.Expert.   |

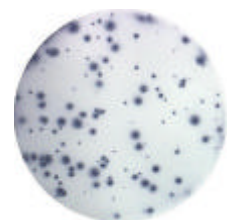
Recommended parameter settings for software version V3.3 and up:

|                |   |     |             |   |       |
|----------------|---|-----|-------------|---|-------|
| 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