

# PeliSPOT™ mouse IFN-gamma

## Specification sheet

<b>Order number</b>	M9533																								
<b>Specificity</b>	The monoclonal antibodies of this pair recognize native and recombinant mouse interferon- $\gamma$ (IFN- $\gamma$ )																								
<b>Intended use</b>	<b>For research use only</b>																								
<b>Application</b>	<p>Mouse IFN-<math>\gamma</math> is an immunoregulatory glycoprotein produced by activated CD4+ and CD8+ T-cells and NK cells. Mouse IFN-<math>\gamma</math> is a pleiotropic cytokine involved in the regulation of nearly all phases of immune and inflammatory responses, including the activation, growth and differentiation of T-cells, B-cells, macrophages, NK cells and other cell types such as fibroblasts and endothelial cells. IFN-<math>\gamma</math> is involved in activation of macrophages to enhance phagocytosis and tumor killing capability, induction of class II MNC and Fc<math>\gamma</math> receptor expression. IFN-<math>\gamma</math> also regulates humoral immune responses; it induces immunoglobulin secretion by IL-2-activated B-cells and potentiates IL-4-induced proliferation of B-cells. Mouse IFN-<math>\gamma</math> is 40% homologue to human IFN-<math>\gamma</math>, but they have no significant cross-reactivity.</p> <p>This PeliSPOT™ mouse IFN-<math>\gamma</math> pair has been developed for reproducible and specific enumeration of mouse IFN-<math>\gamma</math> secreting cells.</p>																								
<b>Assay procedure</b>	See PeliSPOT™ 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 is 18-24 hours.																								
<b>Positive secretion control</b>	Polyclonal cell activation with mouse IL-1b (1 ng/ml) is recommended.																								
<b>Spot counting</b>	Enumeration of spots is preferably done with the A.EL.VIS spot analysers, Eli.Scan or Eli.Expert.																								
	<p>Recommended parameter settings for software version V3.3 and up:</p> <table border="0"> <tr> <td>ROI</td> <td>= 70%</td> <td>Invert</td> <td>= off</td> </tr> <tr> <td>Brightness</td> <td>= 65%</td> <td>Slope</td> <td>= N</td> </tr> <tr> <td>MinSize</td> <td>= 8</td> <td>Development</td> <td>= N</td> </tr> <tr> <td>MaxSize</td> <td>= 500</td> <td>Separation</td> <td>= 50</td> </tr> <tr> <td>Minintensity</td> <td>= 10</td> <td>Pollution</td> <td>= On</td> </tr> <tr> <td>MinCircularity</td> <td>= 100</td> <td>Overdevelop</td> <td>= On</td> </tr> </table>	ROI	= 70%	Invert	= off	Brightness	= 65%	Slope	= N	MinSize	= 8	Development	= N	MaxSize	= 500	Separation	= 50	Minintensity	= 10	Pollution	= On	MinCircularity	= 100	Overdevelop	= On
ROI	= 70%	Invert	= off																						
Brightness	= 65%	Slope	= N																						
MinSize	= 8	Development	= N																						
MaxSize	= 500	Separation	= 50																						
Minintensity	= 10	Pollution	= On																						
MinCircularity	= 100	Overdevelop	= On																						

### Typical results after 20 hours incubation



40,000 YAC-1 cells per well,  
non-stimulated



625 YAC-1 cells per well,  
mouse IL-1b stimulated