



Sanquin

PeliSPOTä mouse IL-5

Specification sheet

Order number	M9515
Specificity	The monoclonal antibodies of this pair recognize native and recombinant mouse IL-5
Intended use	For research use only
Application	<p>Murine interleukin 5 (mIL-5) is an immunoregulatory glycoprotein produced by activated T helper-cells of the Th2-subset. Murine IL-5 is an antiparallel disulphide-linked homodimer with a variable Mr between 40 – 50 kDa with a highly variable degree of glycosylation. There is a 71% homology between mouse and human IL-5. IL-5 induces eosinophil differentiation from hematopoietic cells and promotes eosinophil survival. Furthermore, IL-5 stimulates the generation of cytotoxic T cells and supports the growth and differentiation of pre-activated B-cells. The genes and activities of IL-4 and IL-5 are closely linked and these cytokines are often co-expressed although they have unrelated promoters.</p> <p>The IL-5 receptor consists of a low affinity binding alpha-domain (CD125) and a non-binding beta-chain which is shared with the IL-3R and the GM-CSFR. In mice it is expressed on eosinophils and B-cells.</p> <p>This PeliSPOT™ mouse IL-5 pair has been developed for reproducible and specific enumeration of mouse IL-5 secreting cells.</p>
Assay procedure	See PeliSPOT™ 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 is 18-24 hours.
Positive secretion control	Polyclonal cell activation with PMA (50 ng/mL) /C-amp (1 mM) is recommended.
Spot counting	Enumeration of spots is preferably done with the A.EL.VIS spot analysers, Eli.Scan or Eli.Expert.

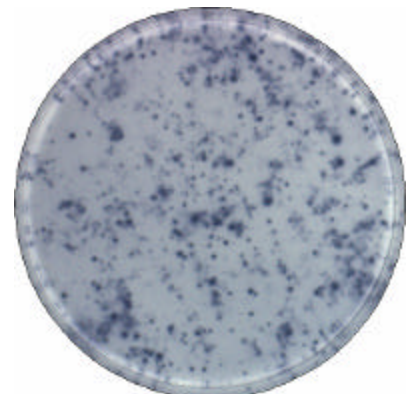
Recommended parameter settings for software version V4.0 and up:

ROI	= 70%	Invert	= off
Brightness	= 65%	Slope	= N
MinSize	= 3	Development	= N
MaxSize	= 500	Separation	= 50
Minintensity	= 10	Pollution	= On
MinCircularity	= 100	Overdevelop	= On

Typical results after 20 hours incubation



12,500 EL4 cells per well,
non-stimulated



3.125 EL4 cells per well,
PHA/C-amp stimulated

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Research Use Only!

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