DENDRITICS

Monoclonal Anti-human Carboxypeptidase M

Product reference: DDX0520

Description

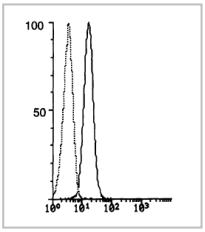
Monoclonal antibody (MoAb) M27 was generated after immunization of mice with the human B-lineage acute lymphoblastic leukemia cell line Pre-ALP. Under reducing conditions, MoAb M27 precipitated a 60-kD surface-membrane molecule from Pre-ALP cells. Expression cloning of Pre-ALP cDNA showed that M27 recognizes carboxypeptidase M (CPM), a cell-surface, zinc-dependent protease known to cleave off basic C-terminal amino acids from peptide hormones. Using M27 antibody, CPM was detected only at discrete B lymphocyte developmental stages, namely on committed precursors and on germinal center cells. CPM was also expressed on mature T cells, mainly after activation. These results provide the first description of a carboxy-peptidase on lymphoid cells. In addition, CPM was found on granulocytes and monocytes but not on their progenitors. CPM was found to be expressed with CD10 and CD13 respectively on lymphoid and myeloid cells. (*de Saint Vis B et al., Blood 1995,86,1098-105)*

Clone:	**M27**
Species	mouse
Specificity:	human Carboxypeptidase M
Immunogen:	pre-ALP cells (human B-lineage acute lymphoblastic leukaemia cell line)
Species cross- reactivity:	nd
Isotype:	IgG1
Purification:	QMA Hyper D ion exchange chromatography
Formulation/size:	**Purified**: 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8

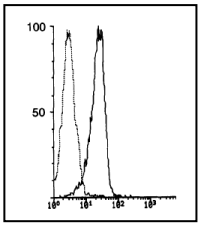
Available formats:

Reference		Format	Application tested
50µg	100µg		
DDX0520P-50	DDX0520P-100	purified	Flow Cytometry, IP, IHC frozen section

Applications tested: Flow cytometry, IP, and IH



FITC-M27 expression on normal B lymphoid precursors



FITC-M27 expression on leukaemia B lymphoid precursors

Usage recommendation:
*****This monoclonal antibody may be used between 5-20 µg/ml
*Optimal dilution should be determined by each laboratory for each application
*Coupled antibody: to maintain RT before using

Aliquot storage conditions:
-20°C. KEEP CONTENTS STERILE: no preservative.
<u>Purified</u> antibodies: avoid repeated freeze/thaw cycles.
<u>Coupled</u> antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only