



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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### Monoclonal Antibody To Human CD69 Marker For Early T-Cell Activation Antigen p60 (Leu-23)

Monoclonal antibody FN50 recognizes the CD69 antigen also known as early T-cell activation antigen p60 (Leu-23). CD69 is expressed during an early activation stage of lymphocytes and monocytes. It is also expressed on NK-cells and platelets.

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<b>Product Number:</b>	T-1357
<b>Clone:</b>	FN50
<b>Host species, isotype:</b>	Mouse IgG1
<b>Quantity:</b>	100µg
<b>Format:</b>	Affinity purified, lyophilized  Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA), and 0.09% sodium azide as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C  Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC); has been described to work in FACS.  <b>Approximate working dilution for IHC:</b> Frozen sections: 2 - 4µg/ml (1:50 - 1:100) Paraffin sections: does not react on routinely processed paraffin sections.  Optimal dilutions should be determined by the end user.  Suggested positive control: Human tonsil <b>Antigen, epitope:</b> The antigen is CD69. The epitope is a 53kD molecule. Under reducing conditions it showed two bands of 29 and 32 kD.



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**Antigen distribution:**

**Isolated cells:** > 90% of activated human peripheral blood lymphocytes.

**Tissue sections:** In tonsil the antigen is strongly expressed on CD4<sup>+</sup> T-cells in the light zone of the follicle centre, on extrafollicular T-cells, and weakly on mantle zone B-cells. In the spleen, the antigen is found on CD4<sup>+</sup> T-cells in the middle of the marginal zone, while in thymus most of the medullary thymocytes are strongly positive.

**Specificity:**

**Human:** CD69

**Other:** not tested.

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### Selected references

Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2<sup>nd</sup> edition, Harcourt Brace & Company, London, (1997)

Knapp, W. et al. (eds), Leukocyte typing IV., Oxford University Press, Oxford (1989)

For *in vitro* research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.