



CELL LAB Mouse Anti-Mouse NK1.1 (Ly-55)

Cat. No.	Form	Quantity
732284	Purified (UNLB) Antibody	0.5 mg
732285	Fluorescein (FITC) Conjugate	0.5 mg
732286	Biotin (BIOT) Conjugate	0.5 mg
732287	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone:	PK136
Isotype:	Mouse [(C3H x BALB/c)F ₁] IgG2a κ
Immunogen:	CD mouse spleen and bone marrow cells enriched for NK-1 ⁺ cells ¹
Specificity:	Mouse NK1.1 alloantigen, Mr 80-85 kDa (39 kDa under reducing conditions)

NK1.1, a member of the NKR-PI family of cell surface receptors, is a type II integral membrane protein with a C-type lectin domain. It is expressed as a disulfide-linked homodimer on all NK cells, as well as subsets of thymocytes and peripheral T lymphocytes in selected strains of mice (e.g., C57/BL6, FVB/N, NZB; but not A, AKR, BALB/c, CBA/J, C3H, C57BR, C58, DBA/1, DBA/2, SJL, 129).¹⁻⁴ NK1.1 mediates cellular activation and differentiation, and is thought to have a particular role in generating Th2 cells.⁵⁻⁷

APPLICATIONS

- Flow cytometry¹
- In vitro complement-dependent cytotoxicity assays¹
- Immunoprecipitation⁸
- *In vitro* activation of NK1.1 cells^{5,6}
- *In vitro* redirected lysis⁵

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Flow Cytometry:	FITC conjugate	$\leq 1 \mu\text{g}/10^6$ cells
	BIOT conjugate	$\leq 1 \mu\text{g}/10^6$ cells
	PE conjugate	$\leq 0.5 \mu\text{g}/10^6$ cells

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.

- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

1. Koo GC and Peppard JR. 1984. Establishment of monoclonal anti-Nk-1.1 antibody. *Hybridoma*, 3:301-303.
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8. Sentman CL, Hackett J, Jr., Moore TA, Tutt MM, Bennett M and Kumar V. 1989. Pan natural killer cell monoclonal antibodies and their relationship to the NK1.1 antigen. *Hybridoma*, 8:605-614.



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