CELL LAB Rat Anti-Mouse NKG2-A/C/E

Cat. No.	Form	Quantity
732280	Purified (UNLB) Antibody	0.5 mg
732281	Fluorescein (FITC) Conjugate	0.5 mg
732282	Biotin (BIOT) Conjugate	0.5 mg
732283	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: 20d5
Isotype: Rat IgG2aκ
Immunogen: CHO cells transfected with murine NKG2[3]
Specificity: Mouse NKG2 (Mr ~43 kDa)

Monoclonal antibody 20d5 reacts with an epitope common to the NKG2A, NKG2C and NKG2E isoforms of the CD94/NKG2 heterodimer, a member of the c-type lectin family of inhibitory receptors. Mouse CD94/NKG2 is a natural killer (NK) cell receptor for the non-classical MHC class I molecule Qa-1b.[1,2] NKG2 is expressed on NK cells, lymphokine-activated killer (LAK) T cells, and some $CD8^+$ memory T cells. Two-color immunofluorescent staining with the 20d5 antibody reveals two distinct NKG2+ phenotypes within the $NK1.1^+CD3^-$ spleen cell population: $NKG2^{hi}$ (50%) and $NKG2^{low}$ (50%). With the exception of DBA/2J mice, NKG2 is expressed on $NK1.1^+$ cells from all mouse strains tested (C57BL/6, BALB/c, 129/J, C3H.SW, AKR/J, and SJL).

APPLICATIONS

- Flow cytometry

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:

Purified antibody	≤1 μg/10^6 cells
FITC conjugate	≤1 μg/10^6 cells
BIOT conjugate	≤1 μg/10^6 cells
PE conjugate	≤0.2 μg/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/NaN_3.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN_3.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN_3 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

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

REFERENCES

1. Vance RE, Kraft JR, Altman JD, Jensen PE and Raulet DH. 1998. Mouse CD94/NKG2A is a natural killer cell receptor for the nonclassical major histocompatibility complex (MHC) class I molecule Qa-1(b). *J Exp Med*, 188:1841-1848.
2. Kraft JR, Vance RE, Pohl J, Martin AM, Raulet DH and Jensen PE. 2000. Analysis of Qa-1(b) peptide binding specificity and the capacity of CD94/NKG2A to discriminate between Qa-1-peptide complexes. *J Exp Med*, 192:613-624.
3. Vance RE, Jamieson AM and Raulet DH. 1999. Recognition of the class Ib molecule Qa-1(b) by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells. *J Exp Med*, 190:1801-1812.

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