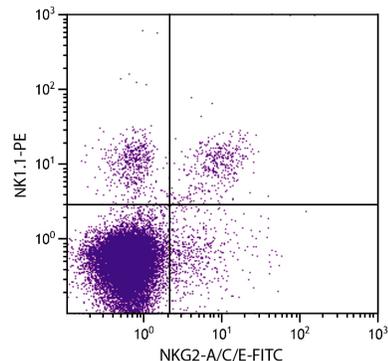




## Rat Anti-Mouse NKG2-A/C/E

Cat. No.	Format	Size
1804-01	Purified (UNLB)	0.5 mg
1804-02	Fluorescein (FITC)	0.5 mg
1804-08	Biotin (BIOT)	0.5 mg
1804-09	R-phycoerythrin (PE)	0.1 mg



C57BL/6 mouse splenocytes were stained with Rat Anti-Mouse NKG2-A/C/E-FITC (SB Cat. 1804-02) and Mouse Anti-Mouse NK1.1-PE (SB Cat. No. 1805-09).

### Overview

<b>Clone</b>	20d5
<b>Isotype</b>	Rat (Lewis) IgG <sub>2a</sub> κ
<b>Immunogen</b>	CHO cells transfected with B6 allele of NKG2A gene
<b>Specificity</b>	Mouse NKG2-A/C/E
<b>Alternate Name(s)</b>	NKG2A, NKG2C, NKG2E

### Description

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

### Applications

FC – Quality tested <sup>1-3</sup>  
Block – Reported in literature <sup>1</sup>

### Working Dilutions

<b>Flow Cytometry</b>	Purified (UNLB) antibody	≤ 1 μg/10 <sup>6</sup> cells
	FITC and BIOT conjugates	≤ 1 μg/10 <sup>6</sup> cells
	PE conjugate	≤ 0.2 μg/10 <sup>6</sup> cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL		

**Other Applications** Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

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## Handling and Storage

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- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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Some reagents contain sodium azide. Please refer to product specific SDS.

## References

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1. Vance RE, Jamieson AM, Raulet DH. Recognition of the class Ib molecule Qa-1<sup>b</sup> by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells. *J Exp Med.* 1999;190:1801-12. (Immunogen, FC, Block)
2. Fraser KP, Gays F, Robinson JH, van Beneden K, Leclercq G, Vance RE, et al. NK cells developing in vitro from fetal mouse progenitors express at least one member of the Ly49 family that is acquired in a time-dependent and stochastic manner independently of CD94 and NKG2. *Eur J Immunol.* 2002;32:686-78. (FC)
3. Lian RH, Maeda M, Lohwasser S, Delcommenne M, Nakano T, Vance RE, et al. Orderly and nonstochastic acquisition of CD94/NKG2 receptors by developing NK cells derived from embryonic stem cells in vitro. *J Immunol.* 2002;168:4980-7. (FC)

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