

# CD314 (NKG2D) Monoclonal Antibody (MI-6 (MI6)), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species reactivity	Mouse
Published species	Mouse
Host / Isotype	Rat / IgG2a, lambda
Class	Monoclonal
Type	Antibody
Clone	MI-6 (MI6)
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4°C
RRID	AB_494130

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	1 Publication
Functional Assay (Functional)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	-

## Product Specific Information

**Description:** The MI-6 monoclonal antibody reacts with the mouse NKG2D, a lectin-like molecule expressed on both human and mouse NK cells. Mouse NKG2D binds to retinoic acid-inducible RAE-1 alpha, beta, gamma, delta, epsilon and the minor histocompatibility molecule H60 and has the ability to costimulate multiple NK activation receptors, through the DAP12/DAP10 adaptor molecules. NKG2D is expressed by all spleen and liver NK cells, NK1.1(+) thymocytes, in vitro activated LAK cells, and a subset of splenic NKT cells.

**Applications Reported:** This MI-6 (MI6) antibody has been reported for use in flow cytometric analysis. Furthermore, engagement of NKG2D with the MI-6 monoclonal antibody has been demonstrated to block NKG2D-mediated cytotoxicity, both in vitro and in vivo .

**Applications Tested:** This MI-6 (MI6) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Storage and handling:** Use in a sterile environment.

**Filtration:** 0.2 µm post-manufacturing filtered.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Endotoxin Level:** Less than 0.001 ng/µg antibody, as determined by LAL assay.

**Aggregation:** Less than 10%, as determined by HPLC.

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