Technical Data Sheet

FITC Mouse Anti-Rat CD161a

Product Information

Material Number:	**555008**
Alternate Name:	NKR-P1A
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	10/78
Immunogen:	Not reported
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 10/78 antibody reacts with NKR-P1A, a 60-kDa homodimer expressed on all natural killer (NK) cells and a small subset of T lymphocytes. The 10/78 antibody competes with the previously described 3.2.3 antibody for binding to the antigen. NKR-P1A is a type-II integral membrane protein with an extracellular C-type lectin domain, which is an NK cell-activating receptor specific for tumor target cells. Many rat dendritic cells have been shown to express NKR-P1A, and a subpopulation of these cells has cytotoxic activity. NKR-P1A has also been detected at low levels on peripheral blood monocytes, and its expression is upregulated in IFN-γ-activated monocytes, specifically in a subpopulation of large monocytes with phagocytic capacity. Furthermore, activated peripheral blood neutrophils may express a low level of NKR-P1A. In the mouse and rat, three members of the *NKR-P1* gene family have been identified; but in the human gene family, a single *NKR-P1* homologue has been discovered and designated *Cd161*.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
550616	FITC Mouse IgG1, κ Isotype Control	0.25 mg	MOPC-31C

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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