

## Technical Data Sheet

## Purified Mouse Anti-Rat RT1A

## Product Information

<b>Material Number:</b>	554917
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	OX-18
<b>Immunogen:</b>	RT1B-depleted membrane glycoproteins isolated from Wistar rat spleen
<b>Isotype:</b>	Mouse (BALB/c) IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Rat
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

The OX-18 antibody reacts with a non-polymorphic determinant of rat MHC class I antigen on erythrocytes and most nucleated cells, except normal neurons and glial cells. OX-18 mAb has been reported to block the recognition of RT1A by rat NK cells.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4° C.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Reported
Immunoprecipitation	Reported
Blocking	Reported

## Suggested Companion Products

Catalog Number	Name	Size	Clone
557273	Purified Mouse IgG1, $\kappa$ Isotype Control	0.5 mg	MOPC-31C
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

## 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](http://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

Fukumoto T, McMaster WR, Williams AF, et al. Mouse monoclonal antibodies against rat major histocompatibility antigens. Two Ia antigens and expression of Ia and class I antigens in rat thymus. *Eur J Immunol.* 1982; 12:237-243.(Immunogen: Immunoprecipitation)  
 Kroese FGM. Immunology of the Rat. In: Pastoret PP, Griebel P, Bazin H, Govaerts A, ed. *Handbook of Vertebrate Immunology*. Academic Press; 1998:137-222. (Clone-specific)  
 Mason DW, Arthur RP, Dallman MJ, Green JR, Spickett GP, Thomas ML. Functions of rat T-lymphocyte subsets isolated by means of monoclonal antibodies. *Immunol Rev.* 1983; 74:57-82.(Immunogen: Immunohistochemistry)  
 Neumann H, Cavalie A, Jenne DE, Wekerle H. Induction of MHC class I genes in neurons. *Science.* 1995; 269(5223):549-552.(Clone-specific)

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