

Technical Data Sheet

FITC Mouse Anti-Rat RT1D

Product Information

Material Number:	550982
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	OX-17
Immunogen:	Wistar rat splenocyte membrane extract
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The OX-17 antibody reacts with a non-polymorphic determinant of rat MHC Class II antigen, I-E equivalent. RT1D is found on peripheral B lymphocytes, thymic cortical epithelial and medullary reticular cells, epithelial cells in the adult small intestine, macrophages and dendritic cells in the intestinal lamina propria and Peyer's patches, epithelial and dendritic cells in the kidney, and activated monocytes, but not on thymocytes, erythrocytes, peripheral T cells, or brain. Its expression is upregulated on large-vessel endothelia and a variety of epithelial and glandular cells in the gastrointestinal system of rats treated with IFN- γ .

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
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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

- 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)
- Mayrhofer G, Pugh CW, Barclay AN. The distribution, ontogeny and origin in the rat of Ia-positive cells with dendritic morphology and of Ia antigen in epithelia, with special reference to the intestine. *Eur J Immunol.* 1983; 13(2):112-122.(Biology)
- Scriba A, Grau V, Steiniger B. Phenotype of rat monocytes during acute kidney allograft rejection: increased expression of NKR-P1 and reduction of CD43. *Scand J Immunol.* 1998; 47(4):332-342.(Biology)
- Steiniger B, Falk P, Lohmuller M, van der Meide PH. Class II MHC antigens in the rat digestive system. Normal distribution and induced expression after interferon-gamma treatment in vivo. *Immunology.* 1989; 68(4):507-513.(Biology)

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