

Technical Data Sheet

Biotin Mouse Anti-Rat CD25

Product Information

Material Number:	559981
Alternate Name:	IL-2R α Chain
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	OX-39
Immunogen:	Rat T blasts from mixed-lymphocyte reactions
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The OX-39 antibody reacts with the α chain of the IL-2 receptor on T lymphoblasts and thymic and splenic dendritic cells. CD25 has also been detected on rat intestinal epithelial cells. It has been reported that OX-39 mAb weakly blocks binding of IL-2 to T-cell blasts and that it blocks IL-2 stimulated epithelial cell migration in an in vitro model of wound healing.

Use of this product can fall under one or more claims of the following patents licensed to Becton, Dickinson and Company: US Patent Nos. 5,445,939, 5,656,446, 5,843,689; European Patent No. 319,543; Canadian Patent No. 1,296,622; Australian Patent No. 615,880; and Japanese Patent No. 2,769,156.

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.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin 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
550615	Biotin Mouse IgG1 κ Isotype Control	0.25 mg	MOPC-31C
554061	PE Streptavidin	0.5 mg	(none)

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

Dignass AU, Podolsky DK. Interleukin 2 modulates intestinal epithelial cell function in vitro. *Exp Cell Res.* 1996; 225(2):422-429.(Clone-specific: Blocking)
 Josien R, Heslan M, Souillou JP, Cuturi MC. Rat spleen dendritic cells express natural killer cell receptor protein 1 (NKR-P1) and have cytotoxic activity to select targets via a Ca²⁺-dependent mechanism. *J Exp Med.* 1997; 186(3):467-472.(Clone-specific)
 Paterson, D.J., Jefferies, W.A. et al. Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. 1987; 24:1281-1290.(Immunogen: Blocking)
 Tellides G, Dallman MJ, Kupiec-Weglinski JW, Diamantstein T, Morris PJ. Functional blocking of the interleukin-2 receptor (IL-2R) may be important in the efficacy of IL-2R antibody therapy. *Transplant Proc.* 1987; 19(5):4231-4233.(Clone-specific: Blocking)

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