

Technical Data Sheet

FITC Mouse Anti-Rat CD134

Product Information

Material Number:	554848
Alternate Name:	OX-40 Antigen
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	OX-40
Immunogen:	Activated rat lymph node cells
Isotype:	Mouse (BALB/c) IgG2b, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The OX-40 antibody reacts with the 50-kDa OX-40 Antigen (CD134), also known as OX-40 Receptor, on CD4⁺ T lymphocytes activated in vitro and in vivo. The antigen is a member of the NGFR/TNFR superfamily, which includes low-affinity nerve growth factor receptor, TNF receptors, the Fas antigen, CD137 (4-1BB), CD27, CD30, and CD40. CD134 supplies costimulatory signals for T-cell proliferation and effector functions. While OX-40 mAb is not mitogenic, it does augment some in vitro T-cell responses. It is also reported to block binding of OX-40 Ligand to OX-40 Antigen.

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
559532	FITC Mouse IgG2b, κ Isotype Control	0.25 mg	MPC-11

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

al-Shamkhani A, Birkeland ML, Puklavac M, Brown MH, James W, Barclay AN. OX40 is differentially expressed on activated rat and mouse T cells and is the sole receptor for the OX40 ligand. *Eur J Immunol.* 1996; 26(8):1695-1699.(Clone-specific: Blocking)

Mallett S, Fossum S, Barclay AN. Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes—a molecule related to nerve growth factor receptor. *EMBO J.* 1990; 9(4):1063-1068.(Clone-specific: (Co)-stimulation)

Paterson DJ, Jefferies WA, Green JR. Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. *Mol Immunol.* 1987; 24(12):1281-1290.(Immunogen)

Smith CA, Farrah T, Goodwin RG. The TNF receptor superfamily of cellular and viral proteins: activation, costimulation, and death. *Cell.* 1994; 76(6):959-962. (Biology)

Weinberg AD, Vella AT, Croft M. OX-40: life beyond the effector T cell stage. *Semin Immunol.* 1998; 10(6):471-480.(Clone-specific)

Weinberg AD, Wallin JJ, Jones RE, et al. Target organ-specific up-regulation of the MRC OX-40 marker and selective production of Th1 lymphokine mRNA by encephalitogenic T helper cells isolated from the spinal cord of rats with experimental autoimmune encephalomyelitis. *J Immunol.* 1994; 152(9):4712-4721. (Clone-specific)

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