Technical Data Sheet

Purified Rat Anti-Mouse CD134

Product Information

Material Number:	**559861**
Alternate Name:	OX-40 Antigen
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	OX-86
Immunogen:	Recombinant Mouse OX-40 3/4 CD4 Chimeric Protein
Isotype:	Rat (AO) IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The OX-86 mAb reacts with the OX-40 antigen (CD134), also known as OX-40 receptor, which is a 50-kDa type-I membrane glycoprotein that belongs to the NGFR/TNFR superfamily. Mouse CD134 is expressed on activated CD4+ and CD8+ T lymphocytes and has been shown to be the sole receptor for the OX-40 Ligand (OX-40L). In the brains of mice with actively induced experimental allergic encephalomyelitis, the expression of CD134 on CD4+ T lymphocytes correlates with disease progression. The OX-40/OX-40L system supplies a costimulatory signal for T-cell proliferation and B-cell proliferation and differentiation. In addition, OX-40 antigen provides a costimulatory signal that induces T cells to proliferate in a CD28-independent manner. In the intact animal, CD134 does not appear to be essential for many T-cell responses, but it seems to play a major role in the pathogenesis of some autoimmune diseases. The OX-86 mAb stains both CD4+ and CD8+ activated T cells, and this expression pattern has been confirmed using OX-40L-Ig fusion protein. CD134 was also detected, using OX-86 mAb, on B cells after stimulation with anti-IgM plus anti-CD40 mAb HM40-3 (Cat. no. 553721). OX-86 mAb does not block binding of OX-40L to OX-40, and it stimulates T-cell proliferation mildly.

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
Western blot	Reported

Suggested Companion Products

Catalog Number	Name	Size	Clone
553922	Purified Rat IgG1, κ Isotype Control	0.5 mg	R3-34
554016	FITC Goat Anti-Rat Ig	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 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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