

Technical Data Sheet

Purified Mouse Anti-Rat CD252

Product Information

Material Number:	559957
Alternate Name:	OX-40L, OX-40 Ligand
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	ATM-2
Immunogen:	ACI-S1 rat T-cell lymphoma cell line
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The ATM-2 antibody reacts with rat CD252 (OX-40 Ligand, OX-40L), a member of the TNF Ligand superfamily. Although there is controversy regarding mouse OX-40L expression, OX-40L has been shown to be expressed on human dendritic cells and mouse activated B lymphocytes. Rat OX-40L interacts with OX-40 Antigen (CD134) found predominantly on activated T cells. The OX-40L-OX-40 interaction is reciprocally costimulatory in that both T cells and B cells are activated in cross-linking. Rat OX-40L mRNA has been detected in various HTLV-I-transformed T-cell lines: F344-S1, WKA-S1, and ACI-S1. In addition, total rat spleen cells activated with 5 ng/ml PMA and 0.5 μ g/ml ionomycin for two days showed OX-40L expression, as determined by flow cytometric analysis, with the ATM-2 mAb. As observed in the mouse and human systems, rat OX-40L also costimulates IL-2 production and proliferation of anti-CD3-activated rat T cells. The ATM-2 mAb blocks the costimulatory activity of OX-40L on rat T-cell proliferation.

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
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Recommended Assay Procedure:

We recommend, as a second-step, the biotinylated goat anti-mouse Ig polyclonal antibody (Cat. no. 553999), followed by Streptavidin-PE (Cat. no. 554061).

Suggested Companion Products

Catalog Number	Name	Size	Clone
553999	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	0.5 mg	Polyclonal
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

- Calderhead DM, Buhlmann JE, van den Eertwegh AJ, Claassen E, Noelle RJ, Fell HP. Cloning of mouse Ox40: a T cell activation marker that may mediate T-B cell interactions. *J Immunol.* 1993; 151(10):5261-5271.(Biology)
- Ohshima Y, Tanaka Y, Tozawa H, Takahashi Y, Maliszewski C, Delespesse G. Expression and function of OX40 ligand on human dendritic cells. *J Immunol.* 1997; 159(8):3838-3848.(Immunogen: Blocking)
- 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.(Biology)

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