

Technical Data Sheet

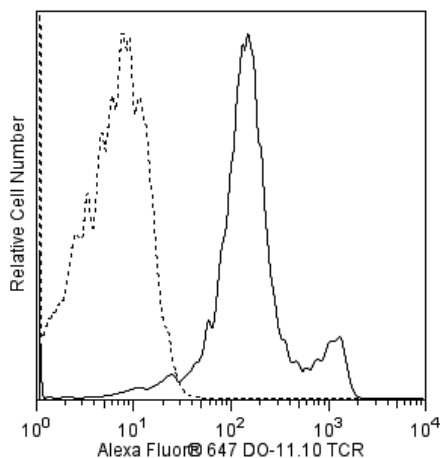
Alexa Fluor® 647 Mouse Anti-Mouse DO-11.10 Clonotypic TCR

Product Information

Material Number:	562524
Alternate Name:	DO-11.10 clonotypic TCR
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	KJ1-26
Immunogen:	DO-11.10 T hybridoma cells
Isotype:	Mouse (BALB.B x AKR) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The KJ1-26 antibody reacts with the DO-11.10 Clonotypic T-cell Receptor (TCR) of the BALB/c-derived DO-11.10 T-cell hybridoma and T lymphocytes from the DO-11.10 transgenic mouse (TgN[DO-11.10]10Loh). The DO-11.10 TCR, an 80-90-kDa (non-reduced) or 40-44-kDa (reduced) protein, is specific for the chicken OVA(323-339)/I-A[d] complex. The DO-11.10 T-cell hybridoma also responds strongly to chicken OVA/I-A[b] and jungle fowl OVA/I-A[d] and weakly to turkey OVA/I-A[d] and I-A[b]. The DO-11.10 mouse model is valuable for studies of T-cell immigration, immunoregulation, development, activation, and function. The KJ1-26 mAb was shown to block the antigen responses of the DO-11.10 T-cell hybridoma in vitro.



Flow cytometric analysis of DO-11.10 TCR expression on BALB/c-derived DO-11.10 transgenic mouse (BALB/c-TgN[DO11.10]10Loh) thymocytes. Thymocytes were stained with either Alexa Fluor® 647 Mouse Anti-Mouse DO-11.10 clonotypic TCR (Cat. No. 562524, solid line histogram) or an Alexa Fluor® 647 mIgG2a, κ Isotype Control (Cat. No. 557715; dashed line histogram). Flow cytometric fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable thymocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
557715	Alexa Fluor® 647 Mouse IgG2a, κ Isotype Control	100 tests	G155-178
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
7. 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.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References

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