Technical Data Sheet

Purified Mouse Anti-Mouse DO-11.10 Clonotypic TCR

Product Information

Material Number: 551771
Size: 0.25 mg
Concentration: 0.5 mg/ml
Clone: KJ1-26
Immunogen: DO-11.10 T hybridoma cells
Isotype: Mouse (BALB.B x AKR) IgG2a, κ
Reactivity: 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.

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

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<tr>
<td>Flow cytometry</td>
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<td>Blocking</td>
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<td>ELISA</td>
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<td>Immunohistochemistry</td>
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Recommended Assay Procedure:

For flow cytometry of cell suspensions from peripheral lymphoid tissues, it is recommended that multicolor staining be performed to distinguish T lymphocytes from non-T cells.

Suggested Companion Products

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<tr>
<td>553454</td>
<td>Purified Mouse IgG2a κ Isotype Control</td>
<td>0.5 mg</td>
<td>G155-178</td>
</tr>
<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
4. 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
Murphy KM, Heimberger AB, Loh DY. Induction by antigen of intrathymic apoptosis of CD4+CD8+ TCRlo thymocytes in vivo. Science. 1990; 250(4988):1720-1723. (Biology)