

Technical Data Sheet

FITC Mouse Anti-Mouse H-2D[k]

Product Information

Material Number:	553585
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	15-5-5
Immunogen:	C3H mouse splenocytes
Isotype:	Mouse (C3H.SW) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 15-5-5 antibody reacts with the H-2D[k] MHC class I alloantigen. It weakly cross-reacts with H-2K[d] and with cells from mice of the H-2[f] haplotype. Reactivity with other haplotypes (e.g., a, b, p, q, r, s) has not been observed.

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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Recommended Assay Procedure:

We have observed that the staining intensity of FITC-conjugated 15-5-5 mAb is severely reduced after fixation of stained leukocytes (≤ 1 hour with 1% formaldehyde). Therefore, one should not fix the stained cells prior to flow cytometry. We have found that freshly-isolated leukocytes and cell lines may wait for analysis in wash buffer at 4°C, without fixation, for up to 18 hours post-staining without loss of viability. Activated lymphocytes may lose viability rapidly, and data should be collected within 5 hours post-staining.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553456	FITC Mouse IgG2a, κ Isotype Control	0.25 mg	G155-178

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

Ozato K, Mayer N, Sachs DH. Hybridoma cell lines secreting monoclonal antibodies to mouse H-2 and Ia antigens. *J Immunol.* 1980; 124(2):533-540. (Immunogen)

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