Mouse TCR γ/δ
Alexa Fluor® 488-conjugated Antibody

Monoclonal Hamster IgG_2, κ Clone # GL-3/5E11

Catalog Number: FAB7297G
100 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TCR γ/δ.
Source	Monoclonal Hamster IgG_2, κ Clone # GL-3/5E11
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse intraepithelial lymphocytes
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

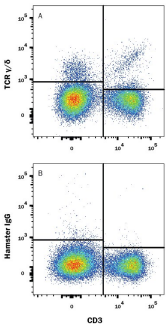
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of TCR γ/δ in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse CD3 APC-conjugated Monoclonal Antibody (Catalog # FAB4841A) and either (A) Hamster Anti-Mouse TCR γ/δ Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB7297G) or (B) Hamster IgG AlexaFluor® 488 Control. View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The γδ T-cell receptor (TCR) is a heteromer that includes type I transmembrane CD3γ and CD3δ glycoprotein subunits of the Ig superfamily. Tγδ cells develop as a minor population in the thymus and migrate mainly to skin and intestinal epithelial layers. Mouse and rat CD3γ and CD3δ are synthesized as 182 and 173 amino acid (aa) precursors that result in 160 and 152 aa mature proteins with 94 and 84 aa extracellular domains (ECD), respectively. The germline ECD sequences of CD3γ and CD3δ share 71% and 76% aa identity between mouse and rat, respectively, while both proteins and species share 57-62% aa identity with human CD3γ and CD3δ. Mouse intraepithelial lymphocytes from the small intestine, which contain a major population of γδ T cells, were used as the immunogen for the GL-3/5E11 antibody(1).

References:

1. Goodman, T. and L. Lefrancois (1989) J. Exp. Med. **170**:2401569.

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