

## Technical Data Sheet

## FITC Hamster Anti-Mouse Vδ 4 TCR

## Product Information

Material Number:	552143
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	GL2
Immunogen:	G57BL/6 mouse intestinal intra-epithelial lymphocytes
Isotype:	Armenian Hamster IgG2, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

## Description

The GL2 antibody reacts with Vδ 4 T-cell Receptor (TCR)-bearing T cells, which are the predominant γδ TCR-bearing cells in the adult intestinal epithelium (γδ IEL). The frequency of Vδ 4 TCR-bearing γδ IEL differs among inbred strains of mice and may be influenced by haplotypes of the MHC, *Tcrg*, and/or *Tcrd* gene complexes. There is evidence that these γδ IEL develop in the absence of thymic influence. T lymphocytes expressing Vδ 4 TCR have also been found in lactating mammary glands, the spleen, and the thymus.

## 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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## Suggested Companion Products

Catalog Number	Name	Size	Clone
550056	FITC Hamster IgG2 κ Isotype Control	0.25 mg	B81-3

## 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](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at [http://www.bdbiosciences.com/pharmingen/hamster\\_chart\\_11x17.pdf](http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf).
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

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 Pereira P, Lafaille JJ, Gerber D, Tonegawa S. The T cell receptor repertoire of intestinal intraepithelial gammadelta T lymphocytes is influenced by genes linked to the major histocompatibility complex and to the T cell receptor loci. *Proc Natl Acad Sci U S A.* 1997; 94(11):5761-5766.(Biology)  
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