Technical Data Sheet

Purified Mouse Anti-Rat γδ T Cell Receptor

Product Information

 Material Number:
 550308

 Size:
 1.0 ml

 Concentration:
 125 μg/ml

 Clone:
 V65

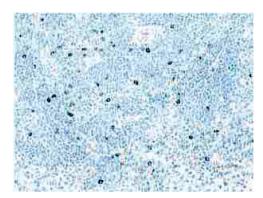
Immunogen: Rat CD3+ αβ TCR- T-cell hybridoma III.89.1.4

Storage Buffer: Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium

azide

Description

The V65 antibody reacts with the $\gamma\delta$ T-cell Receptor (TCR) found on CD3+ $\alpha\beta$ TCR-peripheral T lymphocytes, on a small subset of intestinal intraepithelial lymphocytes, and on dendritic epidermal T cells. Cross-linked V65 mAb induces cytokine-dependent T-cell mitogenesis *in vitro*, and *in vivo* treatment can significantly deplete peripheral $\gamma\delta$ TCR-expressing T cells. A suspension of rat CD3+ $\alpha\beta$ TCR-T-cell hybridoma III.89.1.4 was used as the source of the immunogen.



Immunohistochemical staining of T lymphocytes. The frozen section of normal rat spleen was stained with V65 mAb. $\gamma\delta$ TCR+ cells can be identified by the brown labeling of their cell surface membranes.

Preparation and Storage

Store undiluted at 4°C.

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

Application Notes

Application

Тррисция	
Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-formalin (antigen retrieval required)	Not Recommended

Recommended Assay Procedure:

Immunohistochemistry: The V65 antibody is recommended to test for immunohistochemical staining of acetone-fixed frozen sections. The clone V65 is not recommended for formalin-fixed paraffin embedded sections. Tissues tested were rat spleen, thymus and gastro-intestinal tract. The antibody stains the $\gamma\delta$ TCR+ lymphocytes. For optimal indirect immunohistochemical staining, the V65 antibody should be titrated (1:10 to 1:50 dilution) and visualized via a three-step staining procedure in combination with biotinylated polyclonal anti-mouse Ig (multiple adsorbed) (Cat. No. 550337) as the secondary antibody and Streptravidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). More conveniently, the anti-mouse Ig HRP detection kit (Cat. No. 551011) can be used which contains the biotinylated secondary antibody, the antibody diluent, streptavidin-HRP and a DAB substrate for use in the staining procedure.

A detailed protocol of the immunohistochemical procedure can be found on our website at www.bdbiosciences.com/support/resources

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550308 Rev. 2 Page 1 of 2

Suggested Companion Products

Catalog Number	Name Name	Size	Clone	_
550337	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	1.0 ml	Polyclonal	
550880	DAB Substrate Kit	500 tests	(none)	
550946	Streptavidin HRP	50 ml	(none)	
550878	Purified Mouse IgG1 κ Isotype Control	1.0 ml	MOPC-31C	
551011	Anti-Mouse Ig HRP Detection Kit	200 tests	(none)	
559148	Antibody Diluent for IHC	125 ml	(none)	

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 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.
- 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- An isotype control should be used at the same concentration as the antibody of interest. 4
- This antibody has been developed for the immunohistochemistry application. However, a routine immunohistochemistry test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

Kuhnlein P, Park JH, Herrmann T, Elbe A, Hunig T. Identification and characterization of rat gamma/delta T lymphocytes in peripheral lymphoid organs, small intestine, and skin with a monoclonal antibody to a constant determinant of the gamma/delta T cell receptor. J Immunol. 1994; 153(3):979-986. (Immunogen) Pelegri C, Kuhnlein P, Buchner E, et al. Depletion of gamma/delta T cells does not prevent or ameliorate, but rather aggravates, rat adjuvant arthritis. Arthritis Rheum. 1996; 39(2):204-215. (Biology)

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