

Technical Data Sheet

Purified Hamster Anti-Mouse $\gamma\delta$ T-Cell Receptor

Product Information

Material Number:	553182
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	UC7-13D5
Immunogen:	Not Reported
Isotype:	Armenian Hamster IgG3, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

Description

The UC7-13D5 antibody reacts with the $\gamma\delta$ T-cell Receptor (TCR) complex on $\gamma\delta$ TCR-expressing T lymphocytes and NK-T cells of all mouse strains tested. It does not react with the $\alpha\beta$ TCR-bearing T cells. In the mouse, cell expressing the $\gamma\delta$ TCR are found in the thymus, intestinal epithelium, epidermis, dermis, pulmonary epithelium, peritoneum, liver, and peripheral lymphoid organs. Plate-bound UC7-13D5 antibody activates $\gamma\delta$ TCR-bearing T cells, and in vivo administration of the mAb depletes peripheral $\gamma\delta$ TCR-bearing T cells.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

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

Flow cytometry	Routinely Tested
Immunoprecipitation	Reported
(Co)-stimulation	Reported
Depletion	Reported
Immunohistochemistry-formalin (antigen retrieval required)	Not Recommended

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.

For immunohistochemical staining (IHC) of acetone-fixed frozen sections, we recommend the use of purified anti-mouse $\gamma\delta$ TCR mAb GL3, Cat. No. 553175.

Suggested Companion Products

Catalog Number	Name	Size	Clone
551386	Purified Hamster IgG3, κ Isotype Control	0.5 mg	E36-239
554011	FITC Mouse Anti-Armenian and Syrian Hamster IgG Cocktail	0.5 mg	(none)

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.
4. 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.

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5. 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.

References

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