Technical Data Sheet

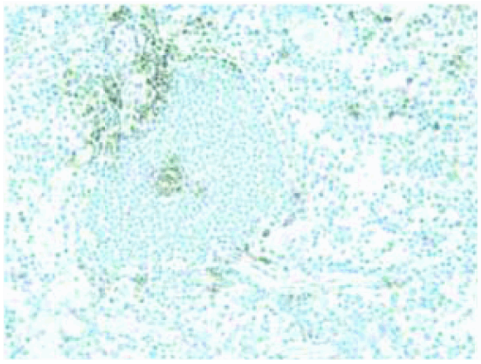
Purified Mouse Anti-Human CD8

Product Information

Material Number:	**550372**
Size:	1.0 ml
Concentration:	31.25 µg/ml
Clone:	HIT8a
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V 5T-CD08.10
Storage Buffer:	Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide.

Description

Reacts with the α subunit (32 kDa) of the two-chain complex. CD8 molecule binds to HLA class I molecules during interaction of CD8+ T cells with antigen-presenting cells or with target cells. CD8 is expressed on T cytotoxic/suppressor cell populations. HIT8a stains approximately 13 - 48% of peripheral blood lymphocytes and 80% of thymocytes, as well as a subset of NK cells. Clones HIT8a and RPA-T8 (Cat. No. 555364) are not cross-blocking.



Immunohistochemical staining of CD8+ T lymphocytes. *Frozen sections of normal human tonsil was reacted with the HIT8a antibody. CD8+ T lymphocytes can be identified by the intense brown labeling of their cell membranes. Amplification 20X.*

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

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

Recommended Assay Procedure:

Immunohistochemistry: The clone HIT8a, specific for human CD8+ T lymphocytes is recommended to test for immunohistochemical staining of acetone-fixed frozen sections. Tissue tested was human spleen and tonsil. The antibody stains CD8+ T lymphocytes, thymocytes and a small subset of NK cells. The isotype control recommended for use with this antibody is purified mouse IgG1 (Cat. No. 550878). For optimal indirect immunohistochemical staining, the HIT8a antibody should be titrated (1:10 to 1:50 dilution) and visualized via a three-step staining procedure in combination with polyclonal, biotin conjugated anti-mouse Igs (multiple adsorbed) (Cat. No. 550337) as the secondary antibody and Streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). A detailed protocol of the immunohistochemical procedure is available at http://www.bdbiosciences.com/support/resources The clone HIT8a is not recommended for formalin-fixed paraffin embedded sections.

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Suggested Companion Products

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

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
4. An isotype control should be used at the same concentration as the antibody of interest.
5. 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.
6. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995. (Clone-specific)

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