

Technical Data Sheet

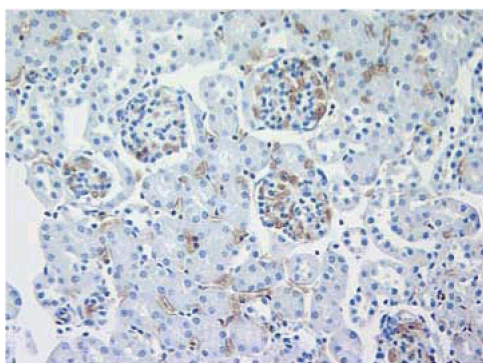
Purified Rat Anti-Mouse TER-119/Erythroid Cells

Product Information

Material Number:	550565
Alternate Name:	Lymphocyte antigen 76; Ly76; Ly-76; TER-119; Ter119
Size:	1.0 ml
Concentration:	31.25 µg/ml
Clone:	TER-119
Immunogen:	Mouse Fetal Liver
Isotype:	Rat (WI) IgG2b, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide.

Description

The TER-119 antibody specifically binds to a 52 kDa molecule associated with glycophorin A on cells of the erythroid lineage in embryonic yolk sac, fetal liver, newborn liver, adult bone marrow, adult peripheral blood, and adult lymphoid organs. The TER-119 antigen is expressed on erythroid cells from pro-erythroblast through mature erythrocyte stages, but not on cells with BFU-E or CFU-E activities. The TER-119 epitope is not detected on hematopoietic stem cells, lymphoid cells, myeloid cells, or erythroleukemia lines. The TER-119 mAb is a component of the "lineage cocktail" used in studies of hematopoietic progenitors to detect, or deplete cells committed to the hematopoietic lineages.



Immunohistochemical staining of mouse erythroid cells.
Formalin-fixed paraffin sections of normal mouse kidney were reacted with the anti-TER-119 antibody. Cells of the erythroid origin can be identified by the 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-formalin (antigen retrieval required)	Tested During Development
Immunohistochemistry-zinc-fixed	Tested During Development

Recommended Assay Procedure:

Immunohistochemistry: The TER-119 antibody specific for mouse erythroid cells is recommended to test for immunohistochemical staining of formalin-fixed paraffin and acetone-fixed frozen sections. Tissues tested were mouse spleen, thymus and kidney. The antibody stains cells of the erythroid origin. The isotype control recommended for use with this antibody is purified rat IgG2b (Cat. No. 559478). For optimal indirect immunohistochemical staining, the TER-119 antibody should be titrated (1:10 to 1:50 dilution) and visualized via a three-step staining procedure in combination with, biotin conjugated anti-rat IgG2b (Cat. No. 550327) as the secondary antibody and Streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880).

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Suggested Companion Products

Catalog Number	Name	Size	Clone
559478	Purified Rat IgG2b, κ Isotype Control	0.25 mg	A95-1
550327	Biotin Mouse Anti-Rat IgG2b	1.0 ml	G15-337
550946	Streptavidin HRP	50 ml	(none)
550880	DAB Substrate Kit	500 tests	(none)
550524	Retrievagen A (pH 6.0)	1000 ml	(none)
559148	Antibody Diluent for IHC	125 ml	(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. 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.
5. An isotype control should be used at the same concentration as the antibody of interest.
6. Please refer to www.bdbiosciences.com/pharmlingen/protocols for technical protocols.

References

Ikuta K, Kina T, MacNeil I, et al. A developmental switch in thymic lymphocyte maturation potential occurs at the level of hematopoietic stem cells. *Cell*. 1990; 62(5):863-874. (Biology)

Kina T, Ikuta K, Takayama E, et al. The monoclonal antibody TER-119 recognizes a molecule associated with glycophorin A and specifically marks the late stages of murine erythroid lineage. *Br J Haematol*. 2000; 109(2):280-287. (Immunogen)

Osawa M, Tokumoto Y, Nakauchi H. Hematopoietic stem cells. In: Herzenberg LA, Weir DM, Blackwell C, ed. *Weir's Handbook of Experimental Immunology*, 5th Edition. Cambridge: Blackwell Science; 1996:66.1-66.5. (Biology)

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