

## Technical Data Sheet

**Biotin Rat Anti-Mouse TER-119/Erythroid Cells****Product Information**

<b>Material Number:</b>	553672
<b>Alternate Name:</b>	Ly-76
<b>Size:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Clone:</b>	TER-119
<b>Immunogen:</b>	Mouse Fetal Liver
<b>Isotype:</b>	Rat (WI) IgG2b, $\kappa$
<b>Reactivity:</b>	QC Testing: Mouse
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

**Description**

The TER-119 antibody reacts with 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.

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.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

**Application Notes****Application**

Flow cytometry	Routinely Tested
Immunohistochemistry	Reported

**Recommended Assay Procedure:**

For IHC, we recommend the use of purified TER-119 mAb in our special formulation for immunohistochemistry, Cat. No. 550565.

**Suggested Companion Products**

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
553987	Biotin Rat IgG2b, $\kappa$ Isotype Control	0.25 mg	A95-1
550565	Purified Rat Anti-Mouse TER-119/Erythroid Cells	1.0 ml	TER-119

**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. 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.

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## 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.(Clone-specific)
- 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: Immunoprecipitation, Western blot)
- Kitajima K, Kojima M, Nakajima K, et al. Definitive but not primitive hematopoiesis is impaired in jumonji mutant mice. *Blood*. 1999; 93(1):87-95.(Clone-specific: Immunohistochemistry)
- 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.(Clone-specific)