

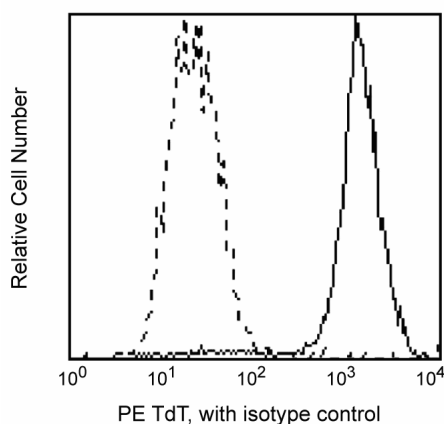
## Technical Data Sheet

**PE Mouse Anti-Human Terminal Transferase Set****Product Information**

<b>Material Number:</b>	<b>550757</b>
<b>Size:</b>	100 tests
<b>Reactivity:</b>	QC Testing: Human
<b>Component:</b>	<b>51-38005X</b>
<b>Description:</b>	PE Mouse Anti-Human Terminal transferase (Tdt)
<b>Size:</b>	100 tests (1 ea)
<b>Vol. per Test:</b>	20 µl
<b>Clone Name:</b>	E17-1519
<b>Isotype:</b>	Mouse IgG1, κ
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.
<b>Component:</b>	<b>51-35405X-5</b>
<b>Description:</b>	PE Mouse IgG1, κ Isotype Control
<b>Size:</b>	100 tests (1 ea)
<b>Vol. per Test:</b>	20 µl
<b>Clone Name:</b>	MOPC-21
<b>Isotype:</b>	Mouse IgG1, κ
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

**Description**

Reacts with terminal deoxyribonucleotidyltransferase (TdT), a template-independent DNA polymerase that adds nucleotides to single stranded DNA primers. Western blot analysis of TdT reveals bands of 55, 40, and 15 kDa. TdT is found in normal bone marrow lymphoid progenitor cells and immature thymic lymphocytes. It has been reported that TdT is involved in the regulation and/or translocation of DNA and gene rearrangement during normal T and B cell development.



*Profile of permeabilized REH cell line analyzed by flow cytometry*

**Preparation and Storage**

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

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

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

**Application Notes****Application**

Intracellular staining (flow cytometry)	Routinely Tested
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**Recommended Assay Procedure:****BD Biosciences**

bdbiosciences.com

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**Staining Protocol:**

1. Harvest cultured target cells into a 50 ml conical centrifuge tube. Centrifuge at 1000 rpm for 10 minutes, aspirate and discard supernate.
2. Wash cell pellet once with PBS and mix gently. Centrifuge at 1000 rpm for 10 minutes, aspirate and discard supernate.
3. Fix the cells by adding 15-20 ml of 1% formaldehyde while vortexing the pellet and incubate for 20 minutes at room temperature. Centrifuge at 1000 rpm for 10 minutes, aspirate and discard supernate.
4. Add 15-20 ml of 0.1% Triton X-100 in PBS and incubate for 5-10 minutes. Centrifuge at 1000 rpm for 10 minutes, aspirate and discard supernate.
5. Resuspend in PBS + 1% FBS (wash buffer) to a final concentration of approximately  $1 \times 10^6$  per 50  $\mu$ l.
6. Prepare one tube of 50  $\mu$ l of cell suspension and add 20  $\mu$ l of conjugated anti-human TdT. Prepare another tube of 50  $\mu$ l of cell suspension and add 20  $\mu$ l of conjugated isotype control. Shake gently, and incubate in the dark at room temperature for 20-30 minutes.
7. Wash tubes in 2 ml of wash buffer. Centrifuge for 5 minutes at 1000 rpm, aspirate and discard supernate.
8. Resuspend in 500  $\mu$ l of wash buffer and analyze by flow cytometry.

**Product Notices**

1. This antibody has been optimized and preassayed with its matched isotype control to be used at the recommended volume of 20  $\mu$ l/test. Titration of the reagents or substituting with other (non-matched) isotype control is NOT recommended.
2. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
4. 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.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

**References**

- Fuller SA, Philips A, Coleman MS. Affinity purification and refined structural characterization of terminal deoxynucleotidyltransferase. *Biochem J.* 1985; 231(1):105-113. (Biology)
- Keren DF, Hanson CA, Hurtubise PE, ed. *Flow Cytometry and Clinical Diagnosis*. Chicago: American Society of Clinical Pathologists Press; 1994:1-676. (Biology)
- Sasaki R, Yuasa Y, Masuyama A, Takaku F, Bollum FJ. Production of a specific monoclonal antibody to terminal deoxynucleotidyl transferase (TdT) and the extensive studies of TdT in patients with hematological malignancies. 1993; 25(4):223-225. (Biology)