

## Technical Data Sheet

**PE-CF594 Hamster IgG1, κ Isotype Control****Product Information**

|                         |   |
|-------------------------|---|
| <b>Material Number:</b> | <b>562307</b>   |
| <b>Alternate Name:</b>  | Anti-Trinitrophenol (TNP)   |
| <b>Size:</b>            | 0.1 mg  |
| <b>Concentration:</b>   | 0.2 mg/ml   |
| <b>Clone:</b>           | A19-3   |
| <b>Immunogen:</b>       | TNP-keyhole limpet hemocyanin                                     |
| <b>Isotype:</b>         | Armenian Hamster IgG1, κ  |
| <b>Storage Buffer:</b>  | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

**Description**

The A19-3 monoclonal antibody specifically binds to the hapten, trinitrophenol (TNP). TNP is not expressed on human, mouse, or rat cells. The immunoglobulin from clone A19-3 was selected as an isotype control following screening for low background staining on a variety of mouse and human tissues.

This antibody is conjugated to BD Horizon™ PE-CF594, which has been developed exclusively by BD Biosciences as a better alternative to PE-Texas Red. PE-CF594 excites and emits at similar wavelengths to PE-Texas Red yet exhibits improved brightness and spectral characteristics. Due to PE having maximal absorption peaks at 496 nm and 564 nm, PE-CF594 can be excited by the blue (488-nm), green (532-nm) and yellow-green (561-nm) lasers and can be detected with the same filter set as PE-Texas Red (eg 610/20-nm filter).

**Preparation and Storage**

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

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

The antibody was conjugated with BD Horizon™ PE-CF594 under optimum conditions, and unconjugated antibody and free PE-CF594 were removed.

**Application Notes****Application**

|                 |                  |
|-----------------|------------------|
| Flow cytometry  | Routinely Tested |
| Isotype control | Routinely Tested |

**Suggested Companion Products**

| Catalog Number | Name               | Size   | Clone  |
|----------------|--------------------|--------|--------|
| 554656         | Stain Buffer (FBS) | 500 ml | (none) |

**Product Notices**

1. An isotype control should be used at the same concentration as the antibody of interest.
2. When excited by the yellow-green (561-nm) laser, the fluorescence may be brighter than when excited by the blue (488-nm) laser.
3. Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using multi-laser cytometers, which may directly excite both PE and CF™594.
4. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
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8. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
9. 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.
10. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.

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