

# CD304 (Neuropilin-1) Monoclonal Antibody (TNKUSOHA), APC-eFluor™ 780, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 100 Tests  |
| Species Reactivity          | Human  |
| Host/Isotype                | Mouse / IgG1, kappa  |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | TNKUSOHA   |
| Conjugate                   | APC-eFluor™ 780  |
| Excitation/Emission Max     | 756/785 nm   |
| Form                        | Liquid   |
| Concentration               | 5 µL/Test  |
| Purification                | Affinity chromatography  |
| Storage buffer              | PBS, pH 7.2, with 0.2% BSA   |
| Contains                    | 0.09% sodium azide   |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!  |
| RRID                        | AB_2573978   |

| Applications          | Tested Dilution     | Publications |
|-----------------------|---------------------|--------------|
| Flow Cytometry (Flow) | 5 µL (0.25 µg)/test | -            |

## Product Specific Information

**Description:** The TNKUSOHA monoclonal antibody recognizes human CD304, which is also known as BDCA-4 and Neuropilin-1. Like CD303, the CD304 antigen is expressed on human plasmacytoid dendritic cells in normal blood and bone marrow. CD304 can also be detected on T follicular helper cells in inflamed tonsils, as well as on some B-cell acute lymphoblastic leukemias. In addition, CD304 is expressed on numerous non-hematopoietic cell types, including neurons, endothelial, and tumor cells. Plasmacytoid dendritic cells play a key role in the innate immune response against viral pathogens and tumors.

**Applications Reported:** This TNKUSOHA antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This TNKUSOHA antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

APC-eFluor® 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

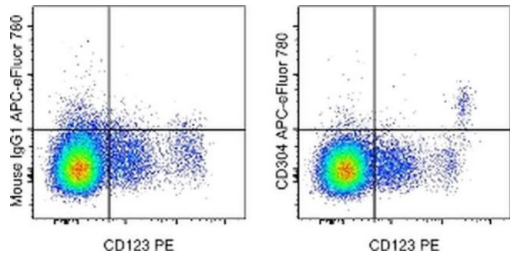
**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD304 (Neuropilin-1) Monoclonal Antibody (TNKUSOHA), APC-eFluor™ 780, eBioscience™**



**CD304 (Neuropilin-1) Antibody (47-3049-42) in Flow**  
Staining of normal human peripheral blood cells with Anti-Human CD123 PE (Product # 12-1239-42) and Mouse IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4714-82) (left) or Anti-Human CD304 APC-eFluor® 780 (right). Cells in the monocyte gate were used for analysis.

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