

CD304 (Neuropilin-1) Monoclonal Antibody (TNKUSOHA), PerCP-eFluor™ 710, 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), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TNKUSOHA
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_2573743

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 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 (0.06 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 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. 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.

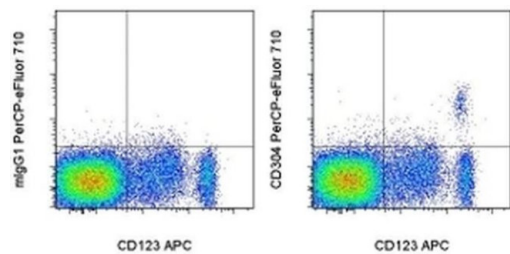
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-

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: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD304 (Neuropilin-1) Monoclonal Antibody (TNKUSOHA), PerCP-eFluor™ 710, eBioscience™



CD304 (Neuropilin-1) Antibody (46-3049-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD123 APC (Product # 17-1239-42) and Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (Product # 46-4714-82) (left) or Anti-Human CD304 PerCP-eFluor® 710 (right). Cells in the monocyte gate were used for analysis.

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