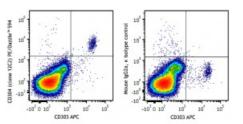
SONY

Product Data Sheet

PE/Dazzle[™] 594 anti-human CD304 (Neuropilin-1)

Catalog # / Size:	2372680 / 100 tests 2372675 / 25 tests
Clone:	12C2
lsotype:	Mouse IgG2a, к
Immunogen:	CD304-Fc Fusion protein
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human peripheral blood mononuclear cells were stained with anti-human CD303 APC and anti-human CD304 (Neuropilin-1) (clone 12C2) PE/Dazzle™ 594 (left) or with mouse IgG2a, κ PE/Dazzle™ 594 isotype control (right). Data shown was gated on the lymphocyte and monocyte populations.

Applications:

Applications:	Flow Cytometry	2 w ⁴
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	Works II (2000) Works
Application Notes:	* PE/Dazzle [™] 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm. Clone HA58 recognizes an epitope located in the extracellular D1 domain of CD54. ³	Human peripheral blood granulocytes were stained with True-Stain Monocyte Blocker [™] (Cat. No. 426103) and Siglec-9 (clone K8) APC/Fire [™] 750 (filled histogram) or mouse IgG1, κ isotype control APC/Fire [™] 750 (open histogram).
Application References:	1. Freeman A, <i>et al.</i> 2014. <i>PLoS One.</i> 2. Johnson P, <i>et al.</i> 2015. <i>Clin Cnacer</i>	9:110928. <u>PubMed</u>

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Description:	CD304, also known as neuropilin-1, BDCA-4 and VEGF165R, is a 140 kD type I transmembrane protein. Its extracellular region contains 2 CUB, 2 FV/FVIII, and one MAM domain; a soluble isoform is produced by alternative mRNA splicing. CD304 is involved in angiogenesis, neural development, and tumor metastasis. It's expressed by plasmacytoid dendritic cells, thymocytes, neurons, endothelium, and a subset of T_{FH} cells. CD304 is also expressed in
	several carcinomas, and a high expression of this molecule in prostate cancer correlates with a poor prognosis.

Antigen	1. Mizui M and Kikutani H. 2008. Immunity 28:302.
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- Hamerlik P, et al. 2012. J. Exp. Med. 209:507.
 Karjalainen K, et al. 2011. Blood 117:920. **References:**

 - 4. Lepelletier Y, et al. 2007. P. Natl. Acad. Sci. USA 104:5545.