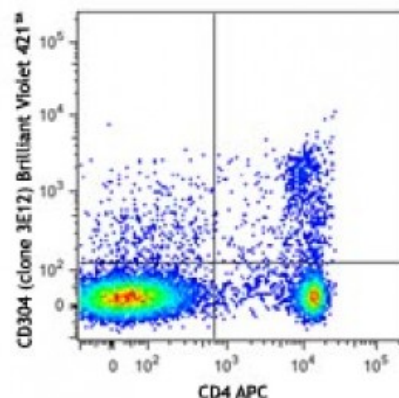


**Brilliant Violet 421™ anti-mouse CD304 (Neuropilin-1)**

<b>Catalog # / Size:</b>	1326045 / 125 µl
<b>Clone:</b>	3E12
<b>Isotype:</b>	Rat IgG2a, κ
<b>Immunogen:</b>	Extracellular region of mouse CD304
<b>Reactivity:</b>	Mouse
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
<b>Concentration:</b>	Lot-specific



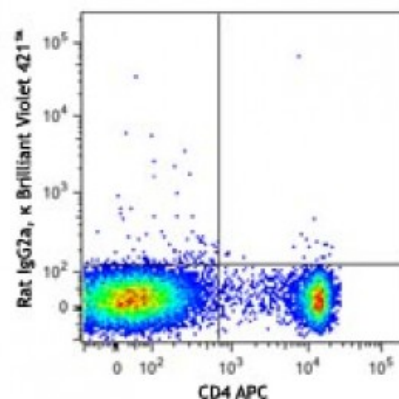
C57BL/6 mouse splenocytes were stained with CD4 APC and CD304 (clone 3E12) Brilliant Violet 421™ (top) or rat IgG2a, κ Brilliant Violet 421™ isotype control (bottom).

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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- Application** 1. Blankenhaus B, *et al.* 2014. *PLoS Pathog.* 10:1003913. [PubMed](#)
- References:** 2. Verhagen J and Wraith DC. 2014. *J. Immunol. Methods.* S0022. (FC) [PubMed](#)
3. Verhagen J, *et al.* 2014. *PLoS One.* 9e:108023. (FC) [PubMed](#)
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**Description:** CD304, also known as neuropilin-1, is a 140 kD type I transmembrane protein. Its extracellular region contains two CUB, two FV/FVIII, and one MAM domain. It is expressed by natural regulatory T cells (nTreg), a subset of invariant natural killer T cells (iNKT), endothelial cells, and neurons. Neuropilin-1 stabilizes the interaction between Tregs and dendritic cells, contributes to the recruitment of tumor-infiltrating Tregs in response to tumor-derived VEGF, and influences the process of angiogenesis and axon guidance. The ligands of CD304 are VEGF165 and semaphorin-3A.

- Antigen**
- References:** 1. Yadav M, *et al.* 2012. *J. Exp. Med.* 209:1713.
2. Weiss JM, *et al.* 2012. *J. Exp. Med.* 209:1723.
3. Hansen W, *et al.* 2012. *J. Exp. Med.* 209:2001.
4. Milpied P, *et al.* 2011