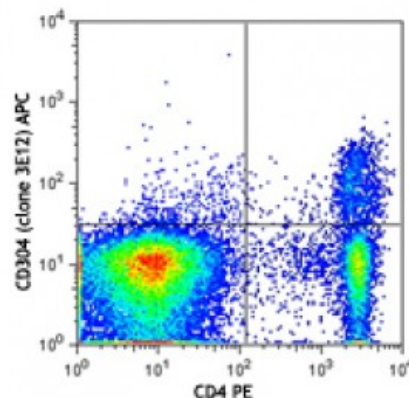


APC anti-mouse CD304 (Neuropilin-1)

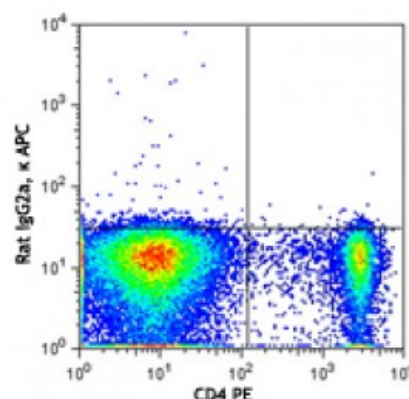
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|--------------------------|--|
| Catalog # / Size: | 1326025 / 25 µg 1326030 / 100 µg |
| Clone: | 3E12 |
| Isotype: | Rat IgG2a, κ |
| Immunogen: | Extracellular region of mouse CD304 |
| Reactivity: | Mouse |
| Preparation: | The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody. |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Concentration: | 0.2 |



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

Applications:

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| Applications: | Flow Cytometry |
| 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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application. |



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| Application References: | 1. Blankenhaus B, <i>et al.</i> 2014. <i>PLoS Pathog.</i> 10:1003913. PubMed 2. Verhagen J and Wraith DC. 2014. <i>J. Immunol. Methods.</i> S0022. (FC) PubMed 3. Verhagen J, <i>et al.</i> 2014. <i>PLoS One.</i> 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, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:1713. 2. Weiss JM, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:1723. 3. Hansen W, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:2001. 4. Milpied P, <i>et al.</i> 2011 |