Product Data Sheet

APC anti-mouse/human SEMA4A

Catalog # / Size:	1342030 / 100 μg 1342025 / 25 μg
Clone:	5E3/SEMA4A
Isotype:	Mouse IgG1, λ
Immunogen:	Mouse SEMA4A-Fc proteins
Reactivity:	Human,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 mg/ml



Mouse splenocytes were stained with CD3 Pacific Blue™ and APC Semaphorin 4A (clone 5E3/SEMA4A

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 $\leq 0.125 \ \mu g$ per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for relevant formats) include: ELISA ¹ .
Application References:	 Kumanogoh A, <i>et al.</i> 2002. <i>Nature.</i> 419:629. Kumanogoh A, <i>et al.</i> 2005. <i>Immunity.</i> 22:305. Toyofuku T, <i>et al.</i> 2007. <i>EMBO J.</i> 26:1373. Delgoffe GM, <i>et al.</i>
Description:	Semaphorin 4A (SEMA4A) is a class IV semaphorin of soluble and transmembrane

proteins originally identified as SemB. It is a single-pass type I membrane protein containing an immunoglobulin-like C2-type domain, a PSI domain, and a Sema domain. SEMA4A is expressed on dendritic cells, activated B cells, and T cells. It is also found on different tissues, such as those in brain, lung, kindney, spleen, and testis. In the immune system, SEMA4A functions as an activator in the T-cellmediated immune response and suppresses vascular endothelial growth factor (VEGF)-mediated endothelial cell migration and proliferation in vitro and angiogenesis in vivo. Like other semaphorin family members it is also involved in guidance of axonal migration during neuronal development and in immune responses. bh A at al 2002 Materia - .. 410 000

Antigen	1. Kumanogoh A, <i>et al.</i> 2002. <i>Nature.</i> 419:629.
References:	2. Kumanogoh A, et al. 2005. Immunity. 22:305.
	3. Toyofuku T, <i>et al.</i> 2007. <i>EMBO J.</i> 26:1373.
	4. Delgoffe GM, <i>et al.</i> <

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