Product Data Sheet

(open histogram).

Brilliant Violet 421[™] anti-human CD47

Catalog # / Size:	2215575 / 25 tests 2215580 / 100 tests	
Clone:	CC2C6	
Isotype:	Mouse IgG1, к	je j
Immunogen:	CCRF-CEM T-cell line	e Cell Numbe
Reactivity:	Human,Non-human primate	
Preparation:	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.	D Log Fluorescence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Human peripheral blood monocytes were stained with CD47 (clone CC2C6) Brilliant Violet 421 [™] (filled histogram) or mouse IgG1, κ Brilliant Violet 421 [™] isotype control
Concentration:	Lot-specific	

Applications:

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 5 μ l per million cells 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.
	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 Notes:	The CC2C6 monoclonal antibody can block the binding of HCD47 antibody to CD47.
Application References:	 Anstee DJ, <i>et al.</i> 1995. In Leucocyte Typing V (Schlossman ed.) Oxford University Press Oxford pp233-234. Brown E, <i>et al.</i> 1990. <i>J. Cell Biol.</i> 111:2785. Gao AG, <i>et al.</i> 1996. <i>J. Biol. Chem.</i> 2
Description:	CD47 also known as Rh-associated protein, gp42, integrin-associated protein

(IAP), and neurophilin, is a 42-52 kD member of the immunoglobulin superfamily containing a five-pass transmembrane attachment. Two splice variants have been For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible

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described in the cytoplasmic tail, the shorter form is expressed in bone-marrowderived cells, endothelial cells, and fibroblasts while the longer form is expressed by neural tissues. CD47 expression is widely distributed in hematopoietic cells including thymocytes, T cells, B cells, monocytes, platelets, and erythrocytes as well as epithelial cells, endothelial cells, fibroblasts, and neural tissues. CD47 functions as an adhesion molecule and thrombospondin receptor and is noncovalently associated with β 3 integrins CD51/CD61, CD41/CD61. Thrombospondin is a ligand for CD47; in the absence of CD47 mice show defects in host defense and β 3 integrin-dependent ligand binding, migration, and cellular activation. CD47 is also part of the Rh complex on erythrocytes. The CC2C6 antibody recognizes human CD47 and has been shown to be useful for flow cytometry.

Antigen References:

- 1. Anstee DJ, *et al.* 1995. In Leucocyte Typing V (Schlossman ed.) Oxford University Press Oxford pp233-234.
- 2. Brown E, *et al.* 1990. *J. Cell Biol.* 111:2785.
- 3. Gao AG, et al. 1996. J. Biol. Chem. 2