

**Brilliant Violet 650™ anti-human CD63**

**Catalog # / Size:** 2365130 / 100 tests  
2365125 / 25 tests

**Clone:** H5C6

**Isotype:** Mouse IgG1,  $\kappa$

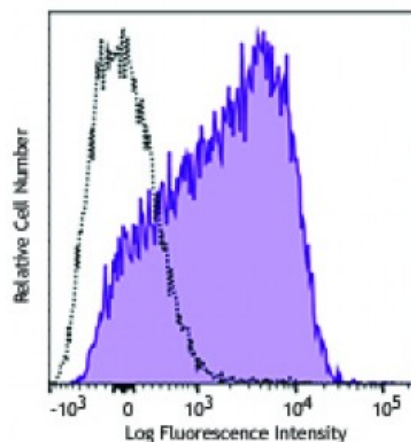
**Immunogen:** T cell line HPB-ALL

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Concentration:** Lot-specific



Thrombin-activated human peripheral blood platelets were stained with CD63 (clone H5C6) Brilliant Violet 650™ (filled histogram) or mouse IgG1,  $\kappa$  Brilliant Violet 650™ isotype control (open histogram).

**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  $\leq 5$  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 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats) include: Western blotting<sup>1</sup>, immunofluorescence<sup>2</sup>, and immunoprecipitation<sup>1</sup>.

**Application References:** 1. Hildreth JE, *et al.* 1991. *Blood* 77:121. (IP, WB)  
2. Beatty WL, *et al.* 2006. *J. Cell Sci.* 119:350. (IF)

**Description:** CD63 is a 53 kD type III lysosomal glycoprotein also known as LIMP, LAMP-3,

gp55, and melanoma-associated antigen (ME491). CD63 is a member of the tetraspan transmembrane superfamily (TM4SF) protein expressed on activated platelets, monocytes/macrophages, endothelium, fibroblasts, osteoclasts, and smooth muscle cells. CD63 may be involved in platelet activation and is thought to function as a transmembrane adaptor protein. CD63 has been shown to associate with CD9, CD81, VLA-3, and VLA-6.

**Antigen  
References:**

1. Azorsa DO, *et al.* 1991. *Blood* 78:280.
2. Kishimoto T, *et al.* Eds. 1997. Leukocyte Typing V1. Oxford University Press New York.
3. Hildreth JE, *et al.* 1991. *Blood* 77:121.
4. Anzai N, *et*