

## Purified anti-human CD51/61

**Catalog # / Size:** 304401 / 25 µg  
304402 / 100 µg

**Clone:** 23C6

**Isotype:** Mouse IgG1, κ

**Workshop Number:** V S246

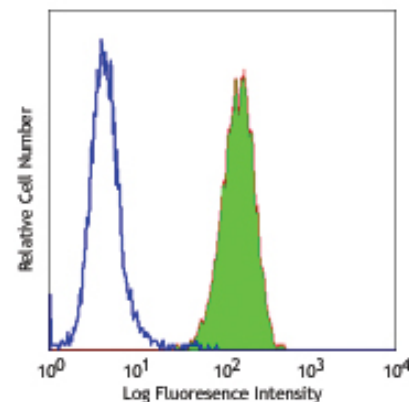
**Reactivity:** Human, **Cross-Reactivity:** Rabbit (Lapine), Chicken<sup>3</sup>

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



Human melanoma cell line M21 stained with purified 23C6, followed by anti-mouse IgGs FITC

## Applications:

**Applications:** FC - *Quality tested*  
IHC, IF, IP - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>5</sup>, immunohistochemical staining of acetone-fixed frozen tissue sections<sup>5</sup>, immunofluorescence microscopy<sup>5</sup>, and blocking of cell adhesion<sup>4,6</sup>. The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 304414).

**Application References:**

- Knapp WB, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- Horton M, *et al.* 1991. *Exp. Cell Res.* 195:368.
- Takahashi R, *et al.* 1999. *Blood* 93:1951. (Block)
- Davies J, *et al.* 1989. *J. Cell Biol.* 109:1817. (IF, IHC, IP)
- Deregibus MC, *et al.* 2007. *Blood* doi:10.1182/blood-2007-03-078709. (FC, Block)
- Barau A, *et al.* 2010. *J. Ultrasound Med.* 29:173. PubMed

**Description:** CD51/CD61 is an integrin complex known as α<sub>v</sub>β<sub>3</sub>. It is expressed at high levels on osteoclasts, endothelial cells, and melanoma cells and at low levels on platelets and macrophages. CD51 is a heterodimer composed of disulfide-linked 125 kD and 24 kD proteins. CD61 is also a member of the integrin family known as gpIIIa or β<sub>3</sub> integrin. It is a 110 kD common β subunit of CD51/CD61 or CD41/CD61 complex. CD51/CD61, also known as the vitronectin receptor, mediates the binding of platelets to immobilized vitronectin without prior activation. Other ligands include RGD-containing proteins such as fibrinogen, fibronectin, von Willebrand factor (vWf), laminin, thrombospondin and the neural adhesion molecule L1. CD51/CD61 also mediates cell-cell adhesion via interaction with CD31. CD51/CD61 acts as an activation-independent receptor for platelet attachment and spreading on vitronectin and other RGD-containing proteins, including matrix components. The 23C6 antibody has been reported to be useful for blocking studies.

**Antigen References:**

- Davies J, *et al.* 1989. *J. Cell Biol.* 109:1817.
- Nesbitt S, *et al.* 1993. *J. Biol. Chem.* 268:16737.

### Related Products: Product

Purified Mouse IgG1, κ Isotype Ctrl  
AKP Goat anti-mouse IgG (minimal x-reactivity)  
APC Goat anti-mouse IgG (minimal x-reactivity)  
FITC Goat anti-mouse IgG (minimal x-reactivity)  
HRP Goat anti-mouse IgG (minimal x-reactivity)  
PE Goat anti-mouse IgG (minimal x-reactivity)  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

### Clone

MOPC-21  
Poly4053  
Poly4053  
Poly4053  
Poly4053  
Poly4053

### Application

FC, ICFC, ICC, IF, IHC, IP, WB  
ELISA, WB, IHC  
FC  
FC  
ELISA, IHC, WB  
FC  
FC, ICC, ICFC  
FC, ICFC



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