

## Technical Data Sheet

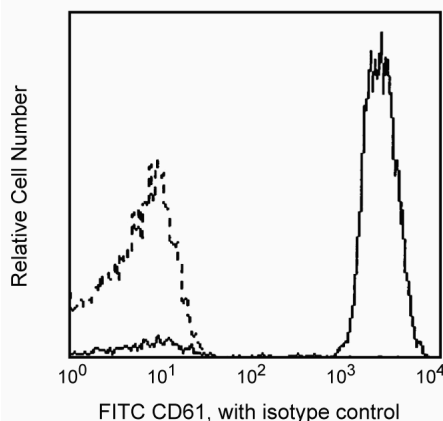
## FITC Mouse Anti-Human CD61

## Product Information

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| <b>Material Number:</b> | <b>561913</b>                                                            |
| <b>Alternate Name:</b>  | Integrin $\beta 3$ Chain                                                 |
| <b>Size:</b>            | 25 tests                                                                 |
| <b>Vol. per Test:</b>   | 20 $\mu$ l                                                               |
| <b>Clone:</b>           | VI-PL2                                                                   |
| <b>Isotype:</b>         | Mouse IgG1, $\kappa$                                                     |
| <b>Reactivity:</b>      | QC Testing: Human<br>Tested in Development: Dog                          |
| <b>Workshop:</b>        | V 5T-124                                                                 |
| <b>Storage Buffer:</b>  | Aqueous buffered solution containing BSA and $\leq 0.09\%$ sodium azide. |

## Description

Reacts with integrin  $\beta 3$ , a 105 kDa transmembrane glycoprotein, expressed on platelets, megakaryocytes, osteoclasts and endothelia. Integrin  $\beta 3$  associates with gpIIa (CD41) to form the CD41/CD61 complex which mediates platelet adhesion and aggregation. CD61 also associates with CD51 to form the CD51/CD61 complex (vitronectin receptor). CD61 appears to bind to fibrinogen, fibronectin, vWF, vitronectin, and thrombospondin to mediate cell adhesion.



Profile of peripheral blood platelets analyzed on a BD FACScan™ (BDIS, San Jose, CA)

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

|                |                  |
|----------------|------------------|
| Flow cytometry | Routinely Tested |
|----------------|------------------|

## Suggested Companion Products

| Catalog Number | Name                                      | Size      | Clone   |
|----------------|-------------------------------------------|-----------|---------|
| 555748         | FITC Mouse IgG1, $\kappa$ Isotype Control | 100 tests | MOPC-21 |
| 554656         | Stain Buffer (FBS)                        | 500 ml    | (none)  |

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ l experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
6. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
7. An isotype control should be used at the same concentration as the antibody of interest.

## References

Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995. (Biology)