## **Technical Data Sheet**

# FITC Hamster Anti-Rat CD29

#### **Product Information**

Material Number:
Alternate Name:
Size:
Concentration:
Clone:
Immunogen:
Isotype:
Reactivity:

**Storage Buffer:** 

#### Description

The Ha2/5 monoclonal antibody specifically binds to the 130 kDa integrin  $\beta$ 1 chain (CD29). CD29 is expressed on the cell surface as a heterodimer with one of the distinct integrin α chains. With α1 through α6 (CD49a through CD49f), it forms the VLA-1 through VLA-6 complexes, respectively, and with  $\alpha V$  (CD51), it forms  $\alpha V\beta 1$  integrin. As a result, CD29 has a broad tissue distribution, including lymphocytes, endothelia, smooth muscle, and epithelia. The Ha2/5 hamster anti-rat CD29 monoclonal antibody cross-reacts with mouse thymocytes, splenocytes, and peripheral lymph node leukocytes. The Ha2/5 antibody blocks in vitro adhesion of CD29-expressing cells to collagen.

555005

0.5 mg 0.5 mg/ml Ha2/5

Rat glomerular epithelial cells Armenian Hamster IgM, ĸ QC Testing: Rat

Tested in Development: Mouse

Itgb1; Integrin β1 chain; Integrin beta-1; VLA-4 subunit beta

Aqueous buffered solution containing  $\leq 0.09\%$  sodium azide.

#### **Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

### **Application Notes**

#### Application

Flow cytometry		Routinely Tested			
Suggested Companion Products					
Catalog Number	Name		Size	Clone	
553960	FITC Hamster IgM, λ1 Isotype Control		0.25 mg	G235-1	
554656	Stain Buffer (FBS)		500 ml	(none)	

#### **Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols. 2.
- 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.
- 4 For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
- 5 An isotype control should be used at the same concentration as the antibody of interest.
- 6. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/documents/hamster chart 11x17.pdf.

#### References

Mendrick DL, Kelly DM. Temporal expression of VLA-2 and modulation of its ligand specificity by rat glomerular epithelial cells in vitro. Lab Invest. 1993; 69(6):690-702. (Immunogen)

Springer TA. Adhesion receptors of the immune system. Nature. 1990; 346(6283):425-434. (Biology)

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