

## InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

## **Technical Data Sheet**

iF488 Anti-Human CD29

Catalog Number: 107209, 107210

Size: 25 tests, 100 tests

Target Name: CD29, Integrin ?1 chain, VLA-? chain, gplla, ITGB1

Regulatory Status: RUO

#### **Product Details**

Clone: K20 Application: FC Reactivity: Human Format: iF488

Isotype: Mouse IgG2a

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v)

BSA

**Protein Concentration:** Supplied at a lot-specific concentration.

Storage&Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and

protected from prolonged exposure to light. Do not freeze.

**Recommended Usage:** For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by

titration for each specific application. **Excitation Laser:** Blue Laser (488 nm)

#### **Background Information**

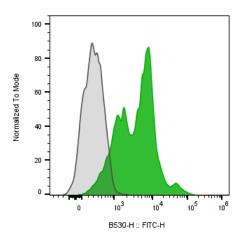
Integrin beta-1 (ITGB1), also known as CD29, is a cell surface receptor that in humans is encoded by the ITGB1 gene.[5] This integrin associates with integrin alpha 1 and integrin alpha 2 to form integrin complexes which function as collagen receptors. Integrin beta 1 is expressed as at least four different isoforms. In cardiac muscle and skeletal muscle, the integrin beta-1D isoform is specifically expressed, and localizes to costameres, where it aids in the lateral force transmission from the Z-discs to the extracellular matrix. Abnormal levels of integrin beta-1D have been found in limb girdle muscular dystrophy and polyneuropathy.

### **Product Data**



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Human peripheral blood lymphocytes stained either iF488 Anti-Human CD29 clone K20 (color-filled histogram) or an isotype control (gray histogram).