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30-2618: Anti-Human CD231 FITC (Clone: B2D)

Clonality: Monoclonal

Clone Name: B2D
Application: FACS
Reactivity: Human
Conjugate: FITC
Gene: TSPAN7
Gene ID: 7102

Alternative Name: TSPAN7, TALLA-1, MXS1, MRX58, TM4SF2, tetraspanin 7

Isotype: Mouse IgG1

Immunogen Information: Human T-ALL cell line THP-6

Description

CD231 (TALLA-1, T-ALL-asociated antigen 1), also known as tetraspanin 7, is a 150 kDa (under reducing conditions 32-45 kDa) transmembrane glycoprotein of tetraspanin family, expressed in T-type acute lymphoblastic leukemia, neuroblastoma, and neuronal tissue. Mutations of CD231 gene are associated with X-linked mental retardation, Huntington´s chorea, and myotonic dystrophy. CD231 interacts with integrins and may have a role in the control of neurite outgrowth. Antibodies to CD231 are important for detection of T-ALL and are potential targets of its treatment.

Specificity: The mouse monoclonal antibody B2D recognizes an extracellular epitope of CD231 (TALLA-1, tetraspanin 7), a transmembrane glycoprotein expressed in neuronal tissue and T-ALL.

Product Info

Amount: 100 tests

Purification: The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum

conditions. The conjugate is purified by size-exclusion chromatography.

Content: Formulation: Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium

azide

Storage condition : Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using $4 \text{ $\tilde{A} \square \hat{A} \mu l}$ reagent / $100 \text{ $\tilde{A} \square \hat{A} \mu l}$ of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

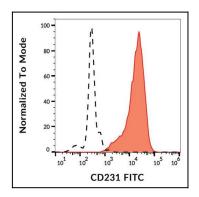


Figure 1 : Separation of JURKAT cells (red-filled) from human peripheral whole blood cells (black-dashed) in flow cytometry analysis (surface staining) using anti-human CD231 (B2D) FITC antibody (4 μ l reagent per milion cells in 100 μ l of cell suspension).