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30-2617: Anti-Human CD231 APC (Clone : B2D)

Clonality: Monoclonal

Clone Name: B2D
Application: FACS
Reactivity: Human
Conjugate: APC
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 allophycocyanin (APC) 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 10 $\tilde{A} \square \hat{A} \mu l$ reagent / 100 $\tilde{A} \square \hat{A} \mu l$ of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

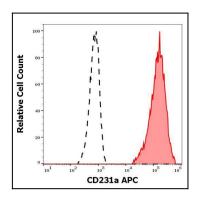


Figure 1 : Separation of Jurkat cells stained using anti-human CD231 (B2D) APC antibody (10 μ l reagent per million cells in 100 μ l of cell suspension, red-filled) from Jurkat cells unstained by primary antibody (black-dashed) in flow cytometry analysis (surface staining).