

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-associated 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 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

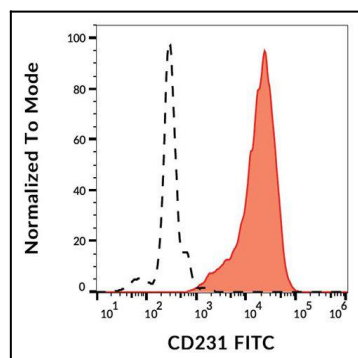


Figure 1 : Separation of JURKAT cells (red-filled) from human peripheral whole blood cells (black-dashed) in flow cytometry analysis (surface staining) using anti-human CD231 (B2D) FITC antibody (4 µl reagent per million cells in 100 µl of cell suspension).