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30-1064FITC: FITC Conjugated Anti-Human IgD Monoclonal Antibody (Clone: IA6-2)

Clonality :	Monoclonal
Clone Name :	IA6-2
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Alternative Name :	IgD, Immunoglobulin D
Isotype :	Mouse IgG2a kappa
Immunogen Information :	Human IgD

Description

Immunoglobulin D (IgD) is expressed on the surface of naive mature B cells, thus later than IgM, and is coexpressed with it then. Triggered by antigen binding, it signals through the CD79 complex to activate the B cells. Expression of IgD is lost after the isotype switch. Soluble IgD is present in very small amounts in the serum. IgD can bind to basophils and mast cells to activate them in an IgE-independent way to participate in respiratory immune defense.

Specificity: The mouse monoclonal antibody IA6-2 recognizes human immunoglobulin D.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

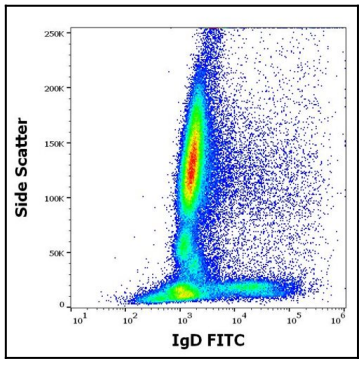

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human IgD (IA6-2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).

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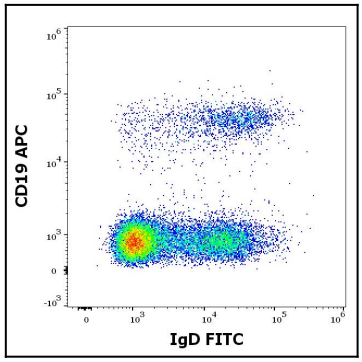

Figure 2: Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD19 (LT19) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human IgD (IA6-2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).

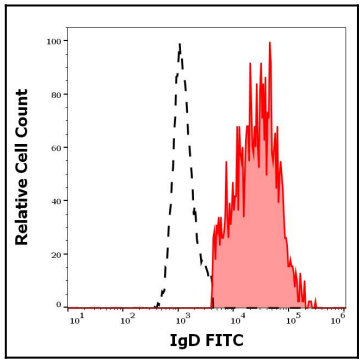

Figure 3: Separation of human CD19 positive IgD positive B cells (red-filled) from CD19 negative IgD negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human IgD (IA6-2) FITC antibody (4 µl reagent / 100 µl of peripheral whole blood).