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## 30-1618: Anti-CD81 Monoclonal Antibody (Clone:M38)-Low Endotoxin

Clonality: Monoclonal

Clone Name: M38
Application: FACS
Reactivity: Human
Gene: CD81
Gene ID: 975
Uniprot ID: P60033

Format: Low Endotoxin

Alternative Name: CD81,TAPA1,TSPAN28

**Isotype:** Mouse IgG1

Immunogen Information: MOLT-4 (human T-ALL cell line)

## **Description**

CD81 (TAPA-1), a member of the tetraspanin family, is expressed on virtually all nucleated cells, but above all on germinal center B cells. CD81 forms complexes with other tetraspanin proteins, integrins, coreceptors, MHC class I and II molecules, and influences adhesion, morphology, activation, proliferation and differentiation of B, T and other cells - e.g. in muscles CD81 promotes cell fusion and myotube maintenance. CD81 has been also identified as a receptor for the hepatitis C virus.

## **Product Info**

Amount: 0.1 mg

**Purification :** Purified by protein-A affinity chromatography

**Storage condition :** Store at 2-8°C. Do not freeze.

## **Application Note**

Functional application: In human MOLT-4 T-cell line the antibody M38 inhibits syncytium formation induced by coculture with human T-cell leukemia virus type 1 (HTLV-1)-positive human T-cell lines.

Flow cytometry: recommended dilution: 1 µg/ml.

Western blotting: recommended dilution: 1-2 µg/ml; positive control: Jurkat cells, non-reducing conditions.

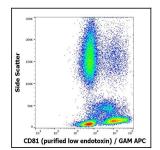


Figure-1: Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD81 (M38) purified antibody (low endotoxin, concentration in sample 4 11/4g/ml) GAM APC.



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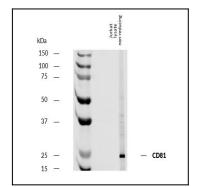


Figure-2: Western blotting analysis of human CD81 using mouse monoclonal antibody M38 on lysate of Jurkat cell line under non-reducing conditions. Nitrocellulose membrane was probed with 2  $\mu$ g/ml of mouse anti-human CD81 monoclonal antibody M38 followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for CD81 at approximately 25 kDa.

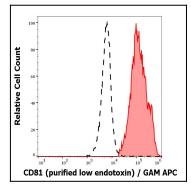


Figure-3: Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD81 (M38) purified antibody (low endotoxin, concentration in sample 4  $\hat{1}\frac{1}{4}$ g/ml) GAM APC.