

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.

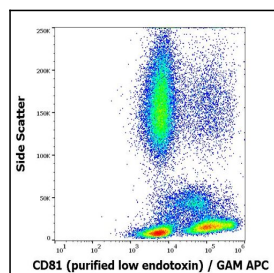


Figure-1: Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD81 (M38) purified antibody (low endotoxin, concentration in sample 4 µg/ml) GAM APC.

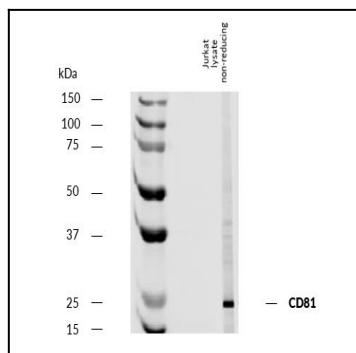


Figure-2: Western blotting analysis of human CD81 using mouse monoclonal antibody M38 on lysate of Jurkat cell line under non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-human CD81 monoclonal antibody M38 followed by IRDye800-conjugated anti-mouse secondary antibody.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

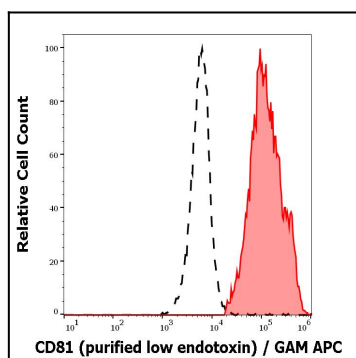


Figure-3: Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD81 (M38) purified antibody (low endotoxin, concentration in sample 4 µg/ml) GAM APC.