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anti-CD6 antibody (PE)

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Publications



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Overview	
Quantity:	100 tests
Target:	CD6
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD6 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)
Product Details	
Immunogen:	Human CD6 antigen purified by immunoaffinity chromatography from HBP-ALL cells followed by preparative SDS-PAGE of non-boiled non-reduced sample (excised piece of gel corresponding to the 100 kDa zone).
Clone:	MEM-98
Isotype:	IgG1
Specificity:	The antibody MEM-98 reacts with an extracellular epitope of CD6, a 100-130 kDa single chain transmembrane glycoprotein expressed on T and B lymphocytes subsets, thymocytes, and acute lymphocytic leukemia cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.

Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

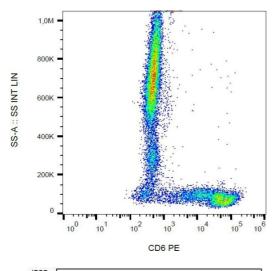
Target:	CD6
Alternative Name:	CD6 (CD6 Products)
Background:	CD6 Molecule,CD6, also known as T12, is a member of the scavenger receptor superfamily found on T and B cell subsets, thymocytes, and acute lymphocytic leukemia cells (ALL). CD6 interacts with its ligand CD166/ALCAM (activated leukocyte cell adhesion molecule) and serves as a coreceptor for T cell activation and stabilizer of the immunological synapse. CD6-ALCAM mediated cell adhesion is also important for T cell proliferation. CD6 may exert some its functions via association with CD5, probably by fine-tuning CD5 signaling. Ligation of CD6 has antiapoptotic role in chronic lymphocytic leukemia B cells.,T12, TP120
Gene ID:	923
UniProt:	P30203
Application Details	
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 μ L reagent / 100 μ L of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only
Handling	
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Product cited in:

Castro, Oliveira, Nunes, Fabre, Barbosa, Peixoto, Brown, Parnes, Bismuth, Moreira, Rocha, Carmo: "Extracellular isoforms of CD6 generated by alternative splicing regulate targeting of CD6 to the immunological synapse." in: **Journal of immunology (Baltimore, Md.: 1950)**, Vol. 178, Issue 7, pp. 4351-61, (2007) (PubMed).

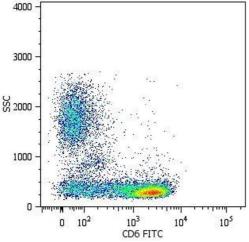
Bazil, Stefanová, Hilgert, Kristofová, Van?k, Bukovský, Horejsí: "Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two newly described broadly expressed glycoproteins MEM-53 and MEM-102." in: **Folia biologica**, Vol. 35, Issue 5, pp. 289-97, (1990) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-human CD6 (MEM-98) PE.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD6 (MEM-98) FITC.