BECKMAN COULTER
MADE IN France

IOTest
Conjugated Antibody
CD99-ECD

	Specifications
Specificity	CD99
Clone	HCD99
Hybridoma	ND
Immunogen	ND
Isotype	IgG2a
Species	Mouse
Purification	Affinity Chromatography
Fluorochrome	R Phycoerythrin-Texas Red-X (ECD)
Molar ratio	ECD / Ig: 0.5 - 1.5
λ excitation	488 nm
Emission Peak	613 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN_3

REF B76291 Liquid - 0.5 mL

Analyte Specific Reagent.
Analytical and performance characteristics are not established

REAGENTS
Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

WARNING AND PRECAUTIONS
1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

GHS HAZARD CLASSIFICATION
Not classified as hazardous

STORAGE AND HANDLING CONDITIONS AND STABILITY
This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SPECIFICITY
CD99 is 32kDa heavily glycosylated single type transmembrane protein. CD99 is variably expressed on blood cells: at high density on T cells, NK cells and erythrocytes, at low density on B cells, eosinophils and platelets (1). CD99 has intercellular protein phosphorylation activity, which triggers modulation of T-cell adhesion, induction of homotypic adhesion of corticothymocytes, apoptosis and rosette formation with erythrocytes (1,2,3,4). The

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monoclonal antibody HCD99 recognizes the CD99 protein (5). The monoclonal antibody HCD99 has been assigned to the CD99 cluster of differentiation at the sixth International Workshop on Human Leucocyte Differentiation Antigens held in Kobe, Japan (1997)(1).

LIMITATIONS

Due to the tandem structure of the fluorochrome, ECD also emits light at 575 nm. This secondary emission peak varies from lot-to-lot of ECD. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a ECD -conjugate.

TRADEMARKS

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ADDITIONAL INFORMATION

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

REFERENCES

1. Leucocyte Typing VI: White Cell Differentiation Antigens: Proceedings of the Sixth International Workshop and Conference held in Kobe, Japan, Tadamitsu Kishimoto et al., Garland Publishing, 1997. CD Guide: CD99 report, page 1183.
2. Gelin, C et al. The E2 antigen, a 32 kd glycoprotein involved in T-cell adhesion processes, is the MIC2 gene product. The EMBO Journal 1989, 8, 11,3253 – 3259.3
3. Choi, E et al. Engagement of CD99 Induces Up-Regulation of TCR and MHC Class I and II Molecules on the Surface of Human Thymocytes. J Immunol 1998; 161:749-754.
4. Pettersen, R et al. CD99 Signals Caspase-Independent T Cell Death. Immunol 2001; 166:4931-4942.
5. O'Neill, A. et al. Targeted Imaging of Ewing Sarcoma in Preclinical Models Using a 64Cu-Labeled Anti-CD99 Antibody. Clin Cancer Res; 2014, 20, 678.

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