

# IO Test Conjugated Antibody CD90-APC -Alexa Fluor750

	Specifications
Specificity	CD90
Clone	Thy-1/310
Hybridoma	X63 x balb/c
Immunogen	WEHI-231 cell line
Isotype	IgG1
Species	Mouse
Purification	Affinity Chromatography
Fluorochrome	Allophycocyanin-Alexa Fluor 750
Molar ratio	APC-AlexaFluor750 / Ig: 0.5 - 1.5
$\lambda$ excitation	633/638 nm
Emission Peak	775 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN <sub>3</sub>

**REF** B36121 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](http://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.

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Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

### **SPECIFICITY**

The human CD90 antigen (also known as Thy-1) is the smallest (18 kDa) member of the immunoglobulin gene superfamily (IgSF). It is a highly glycosylated glycosyl-phosphatidylinositol (GPI) anchored molecule consisting of a single IgSF V-set domain (1). The CD90 molecule has a broad tissue distribution and is expressed in nervous tissue, connective tissue and various stromal cell lines (1). It characterizes a rare subset of human fetal bone marrow cells, that contains multipotent hematopoietic progenitor activity (2, 3). This antigen is expressed on a subset of CD34 positive cells from human bone marrow, cord blood or fetal liver (1, 3, 4). It is also expressed on very small subset of thymocytes and peripheral T-lymphocytes (4).

### **LIMITATIONS**

Due to the tandem structure of the fluorochrome, APC-AlexaFluor750 also emits light at 660 nm. This secondary emission peak varies from lot-to-lot of APC-AlexaFluor750. Therefore, for multi-color analysis, the compensation matrix should be carefully checked when changing the lot of a APC-AlexaFluor750 -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.

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## **REFERENCES**

1. Lansdorp, P.M., "CDw90 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 967-968.
2. Baum, C.M., Wessman, I.L., Tsukamoto, A.S., Buckle, A-M., Peault, B., "Isolation of a candidate human hematopoietic stem-cell population", 1992, Proc. Natl. Acad. Sci. USA, 89, 2804-2808.
3. Craig, W., Kay, R., Cutler, R.L., Lansdorp, P.M., "Expression of Thy-1 on human hematopoietic progenitor cells", 1993, J. Exp. Med., 177, 1331-1342.
4. Clark, R.A., Springer, T.A., "CD90 Workshop Panel report", 1997, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., et al, Eds., Garland Publishing, Inc., 425-427.



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