BECKMAN COULTER
MADE IN France

# IOTest
# Conjugated Antibody
# CD31-FITC

| | Specifications |
|---|---|
| Specificity | CD31 |
| Clone | 5.6E |
| Hybridoma | NS1 x balb/c |
| Immunogen | muscle tissue extract (rhabdomyosarcoma) |
| Isotype | IgG1 |
| Species | Mouse |
| Purification | Affinity Chromatography |
| Fluorochrome | Fluorescein isothiocyanate (FITC) |
| Molar ratio | FITC / Ig: 4.5 - 6 |
| λ excitation | 488 nm |
| Emission Peak | 525 nm |
| Buffer | PBS pH 7.2 plus 2 mg / mL BSA and 0.1% $NaN_3$ |

**REF** IM1431U Liquid - 2 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

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|---|---|
| SDS | Safety Data Sheet is available at beckman.com/techdocs |

## 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.

## CONTENTS

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 CD31 antigen, also known as Platelet Endothelial Cell Adhesion Molecule 1 (PECAM-1), is a transmembrane glycoprotein of 130 kDa related to the immunoglobulin superfamily (1). The expression of CD31 on stem cells of the myeloid lineage, on platelets and on endothelial cell junctions (2) is reviewed in litterature 3. CD31 is involved in the migration of leucocytes through the endothelial cell wall, via adhesion to αvβ3 integrin and to CD38 (4, 5).

In addition, CD31 participates in outside-in signaling in leucocytes (6) likely through phosphorylation of its intracytoplasmic tyrosine residues 663 and 686 and subsequent association with tyrosine phosphatases SHP-1 and SHP-2 (7). On platelets, recent studies suggest a comparable mechanism of action for CD31 in activation and aggregation (8, 9). The 5.6E monoclonal antibody has been assigned (as antibody No. P90) to the CD31 cluster of differentiation at the 4th International Workshop on Human Leucocyte Differentiation Antigens in Vienna, Austria, in 1989 (10) and further described in litterature 8 and 11.

## TRADEMARKS



## 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.

## Symbols Key

Glossary of Symbols is available at beckman.com/techdocs (document number B60062)

## REFERENCES

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