Analyte Specific Reagent.
Analytical and performance characteristics are not established.

SPECIFICITY
The CD48 antigen is a glycosyl phosphatidylinositol (GPI)-anchored membrane glycoprotein of 40-47 kDa (1, 2). With 2 extracellular immunoglobulin (Ig)-like domains, CD48 belongs to the Ig superfamily. CD48, expressed on all lymphocytes and monocytes (3), has been shown to be a low affinity ligand for CD2, suggesting a role in leucocyte adhesion (4). CD48 has been shown to participate in CD40-mediated activation of B cells (5).
The J4.57 monoclonal antibody (mAb), previously published as J51, reacts with a protein of 45 kDa (6). The J4.57 mAb has been assigned (as Ab. No. N47) to the CD48 cluster of differentiation at the 4th International Workshop on Human Leucocyte Differentiation Antigens in Vienna, Austria, in 1989 (1) and further described in Ref. 5.

REAGENT
IOTest CD48-ECD
Conjugated antibody
PN B06026 – 0.5 mL – Liquid - 10 µL/test

Clone
J4.57
Isotype
IgG1, Mouse
Immunogen
SKLY18 lymphoma cells
Hybridoma
NS1 x balb/c
Source
Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification
Affinity chromatography
Conjugation
R Phycocerythrin-Texas Red-X (ECD)
Molar Ratio
EC3 / Ig: 0.5 - 1.5
Fluorescence
Excites at 488 nm
Emits at 613 nm

REAGENT CONTENTS
This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

STATEMENTS OF WARNING
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.

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.

PRECAUTIONS
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.

SELECTED RESEARCH REFERENCES

TRADEMARKS
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Texas Red-X is a trademark of Molecular Probes, Inc.

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