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

SPECIFICITY
The CD80 antigen (B7. B7-1, or BB1) is a highly glycosylated single-chain transmembrane protein, structurally similar to CD86 (B7-2 or B70), with a molecular weight of 60 kDa, under non reducing conditions (1, 2). Its extracellular region is composed of two Ig-like domains. CD80 shares with CD86 the same co-receptors on T cells, CD28 and CD152 (CTLA-4) (3). CD80 and CD86 have a critical role in one costimulatory pathway involved in the prevention of antigen-specific T-cell tolerance (anergy), mediated by ligation of CD28 on T cells by its ligands, CD80 and CD86 on antigen-presenting cells (4). Interactions between CD28 on T-cells and CD80 (or CD86) on activated B cells result in enhanced T-cell activation (1, 5). CD152 (CTLA-4) binds CD80 and CD86 with an higher affinity and probably functions as a negative regulator for T-cell activation (6, 7).

The MAB104 monoclonal antibody (mAb) reacts with in vitro activated B lymphocytes, some B cell lines, and weakly with a small proportion of non-activated B cells (8). This antibody also reacts with activated T cells but not with peripheral monocytes and T cells (3, 8, 9).

The MAB104 mAb was assigned to the CD80 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan, in 1996 (5).

REAGENT
IOTest CD80-APC Conjugated Antibody PN B30642 - 0.5 mL - Liquid
Clone MAB104
Isotype IgG1, Mouse
Immunogen Jijoye cells (Human Burkitt Lymphoma cell line)
Hybridoma NS1 x balb/c
Source Ascites fluid or supernatant of in vitro cultured hybridoma cells.
Purification Affinity chromatography
Conjugation Allophycocyanin (APC)
Molar Ratio APC / Ig : 0.5 - 1.5
Fluorescence Excites at 633/638 nm Emits at 660 nm

REAGENT CONTENTS
This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin. Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

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 handling this reagent.
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 or incorrect results might occur.
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.

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

SELECTED RESEARCH REFERENCES

TRADEMARKS
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