IOTest
Conjugated Antibody
CD86(B7-2)-APC
-Alexa Fluor 750

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REF: B30646 Liquid - 0.5 mL

Analyte Specific Reagent.
Analytical and performance characteristics are not established

REAGENTS

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.

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 anti-human HA5.2B7 monoclonal antibody (mAb) binds specifically to CD86 (B7-2) antigen (1). The CD86 antigen (B7-2, B70) is a single chain transmembrane glycoprotein, structurally similar to CD80 (B7-1) (2,3). Its molecular weight is 80 kDa, under reducing conditions. The extracellular region is composed of one V-type and one C-type Ig-like domains. There are 8 potential sites for N-glycosylation. The cytoplasmic tail has 3 potential sites for protein kinase C phosphorylation (4,5). CD86 shares with CD80 the same co-receptors on T cells, CD28 and CD152 (CTLA-4). CD86 binds to CD152 with a 20 to 100-fold higher affinity than to CD28 (6).

CD86 and CD80 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, CD86 and CD80 on antigen-presenting cells (7,8). CD86 is constitutively expressed by interdigitating dendritic cells, peripheral blood monocytes, activated B cells, and, at a lower level, by peripheral blood dendritic cells (2,3,9). On lymphocytes, CD86 appears as a B-cell activation antigen. It is preferentially expressed by memory B cells and germinal B center cells, but not on plasma cells (4).

Its expression can be upregulated by activation through surface immuno-globulin, MHC-class II molecules, and CD40 triggering, or by PMA treatment with ionomycin. Also, PHA-activated T cells show a weak expression of CD86 on CD4-positive cells, and a consistent one on CD8-positive cells (5).

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.

REFERENCES