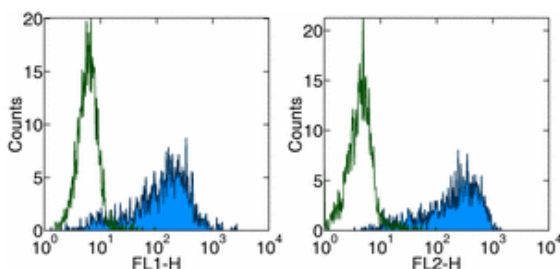


## Anti-Rat CD86 (B7-2) Purified

Catalog Number: 14-0860

Also Known As: B72

RUO: For Research Use Only



Surface staining of LPS-stimulated rat splenocytes with Anti-Rat CD86 (B7-2) FITC (left) and PE (right). Autofluorescence is shown via open histogram. Total viable cells were used for analysis.

### Product Information

Contents: Anti-Rat CD86 (B7-2) Purified


**REF** Catalog Number: 14-0860

Clone: 24F

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1,  $\kappa$

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The 24F monoclonal antibody reacts with rat CD86, an ~90 kDa surface receptor, also known as B7-2. CD86 and CD80 are members of the B7 family of costimulatory molecules. CD86 is expressed by germinal center B cells and at low levels on macrophages, dendritic cells and non-lymphoid cells in the thymus. Its expression is upregulated on B cells through a variety of surface stimuli including LPS. In addition to CD80 (B7-1), CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152 (CTLA-4). The interaction of CD86 with its ligands plays a critical role in T-B crosstalk, T cell costimulation, autoantibody production and Th2-mediated Ig production. The kinetics of upregulation of CD86 upon stimulation supports its major contribution during the primary phase of an immune response.

### Applications Reported

The 24F antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. It has also been reported in blocking of CD86 in functional studies. (Please use Functional Grade purified 24F, cat. 16-0860, in functional assays.)

### Applications Tested

The 24F antibody has been tested by flow cytometric analysis of resting and activated rat splenocyte suspensions. This can be used at less than or equal to 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Maeda, K., T. Sato, et al. 1997. Characterization of rat CD80 and CD86 by molecular cloning and mAb. *Int Immunol* 9(7): 993-1000.

Damoiseaux, J. G., H. Yagita, et al. 1998. Costimulatory molecules CD80 and CD86 in the rat; tissue distribution and expression by antigen-presenting cells. *J Leukoc Biol* 64(6): 803-9.

Trinite, B., C. Voisine, et al. 2000. A subset of cytolytic dendritic cells in rat. *J. Immunol.* 165(8): 4202-8

### Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

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