



Antibody Specification Sheet

Anti-human CD80 - Purified



Catalog reference: AS29-P

Size: 0.1 mg

Antibody Information:

Antigen: recombinant expressed extra-cellular domain of human CD80.

Ig Class: mIgG1.

Specificity: recognizes the extra-cellular domain of human CD80 (also called B7-1). Does not bind the extracellular domain of CD86.

Antibody Source: monoclonal antibody from BALB/c-derived hybridoma AS29.

Production: *in vitro* cell culture.

Purification: Protein A agarose chromatography.

Purity: ≥95%.

Formulation: provided as a 0.2 µm sterile-filtered solution in phosphate buffered saline .

Concentration: 1 mg/ml.

Recommendations: Neutralization and Immunoprecipitation.

Storage conditions: store undiluted at 4 °C or in aliquots at ≤-20 °C.

Applications:

Neutralization: AS29 has been used to to block the interaction of soluble hCD80 with human CD152 (CTLA4).

Immunoprecipitation: This antibody has been used to immunoprecipitate > 90% of CD80 in

solution using a double-antibody method. (Midgley, AR and Hepburn, MR, *Methods Enzymol.*, 70, 266, 1980).

General Information:

Cell Distribution: CD80 is rapidly induced on the surface of activated B cells, T cells or monocytes and is expressed at high levels on dendritic cells.

Function: CD80 is one of two ligands (the other CD86) for CTLA4 and CD28. CD80 acts as co-stimulatory molecule in eliciting T-cell help during antigen presentation. Antigen presentation in the absence of sufficient costimulation involving CD86/CD80 can induce tolerance. CD80 appears to play a role distinct from CD86 in T helper cell differentiation.

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