

**anti- B7-1**

Cat #: HM1018  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

T cell proliferation and lymphokine production are triggered by occupation of the TCR by antigen, followed by a costimulatory signal that is delivered by a ligand expressed on antigen presenting cells. B7-1 (CD80) and B7-2 (CD86) are type I membrane proteins that are expressed on antigen presenting cells. They bind the homologous T cell receptors CD28 and CTLA-4 (cytotoxic T lymphocyte-associated protein-4). Binding with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding with CTLA-4 negatively regulates T-cell activation and diminishes the immune response.

**SPECIFICITY**

This antibody reacts with B7-1 of human origin by Western blotting and immunohistochemistry; non cross-reactive with B7-2.

**IMMUNOGEN**

A peptide at the amino terminus of human B7-1.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCE**

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9. Zheng, Y., Manzotti, C.N., Liu, M., Burke, F., Mead, K.I. and Sansom, D.M. (2004) CD86 and CD80 differentially modulate the suppressive function of human regulatory T cells. *J. Immunol.* 172, 2778-2784.

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