

## 30-2752: Anti-Hu CD86 Purified Low Endotoxin

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	BU63
<b>Application :</b>	FACS, IP, WB, IHC-Fr, FUNC
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	Purified Low Endotoxin
<b>Gene :</b>	CD86
<b>Gene ID :</b>	942
<b>Uniprot ID :</b>	P42081
<b>Alternative Name :</b>	CD86 molecule B7-2, FUN-1, LAB72
<b>Immunogen Information :</b>	B-lymphoblastoid cell line ARH 77

### Description

CD80 (B7-1) and CD86 (B7-2) are ligands of T cell critical costimulatory molecule CD28 and of an inhibitory receptor CTLA-4 (CD152). The both B7 molecules are expressed on professional antigen-presenting cells and are essential for T cell activation, the both molecules can also substitute for each other in this process. The question what are the differences in CD80 and CD86 competency has not been fully elucidated yet; there are still conflicts in results about their respective roles in initiation or sustaining of the T cell immune response.

**Specificity :** The mouse monoclonal antibody BU63 reacts with an extracellular epitope of CD86 (B7-2), a 70 kDa type I transmembrane glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macrophages or activated B lymphocytes.

### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography.
<b>Content :</b>	Concentration: 0.5 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

### Application Note

**Functional application:** The antibody BU63 blocks mixed lymphocyte reaction (MLR) and binding of soluble CTLA-4 (CD152)-mulg fusion protein to CD86 (B7-2).

**Flow cytometry:** Recommended dilution: 5  $\mu$ g/ml.