

### 43-1040: Monoclonal Antibody to Human CD86 (B7-2) NALE™ Purified (Clone: IT2.2)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	IT2.2
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD86
<b>Gene ID :</b>	942
<b>Uniprot ID :</b>	P42081
<b>Alternative Name :</b>	CD28LG2, Activation B7-2 antigen, B70, BU63, CTLA-4 counter-receptor B7.2, FUN-1
<b>Isotype :</b>	Mouse IgG2b, kappa

#### Description

The IT2.2 antibody reacts with human CD86, also known as B7-2, an 80 kDa cell surface protein which is a ligand for CD28, a co-stimulatory receptor for the T cell receptor (TCR). CD28 can also bind a second B7 ligand known as CD80 (B7-1). Both CD80 and CD86 are expressed on activated B cells and antigen-presenting cells. These ligands trigger CD28 signaling in concert with TCR activation to drive T cell proliferation, induce high-level expression of IL-2, impart resistance to apoptosis, and enhance T cell cytotoxicity. The interaction / co-stimulatory signaling between the B7 ligands and CD28 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response. The IT2.2 antibody may be used as a marker for CD86 expression on B cells, macrophages, and dendritic cells. It is reported to be cross-reactive with Rhesus, Cynomolgus and Common marmoset CD86.

#### Product Info

<b>Amount :</b>	500 µg
<b>Content :</b>	1 mg/ml in Phosphate-buffered aqueous solution, pH7.2.
<b>Storage condition :</b>	The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

#### Application Note

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.