



# Anti-CD86 monoclonal antibody, clone PO3 (CABT-46789RM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rat anti mouse CD86 recognizes mouse CD86 (B7-2), an 80kD cell surface glycoprotein which is a member of the CD28/B7 family. In mouse CD86 is expressed at high levels on peripheral blood monocytes and dendritic cells, and at low levels on resting B and T-lymphocytes. Expression of CD86, on these cell populations, can be increased upon activation. CD86 has been identified, along with CD80 (B7-1), as a ligand for CD28 and cytotoxic T-lymphocyte antigen-4 (CTLA4). CD28 and CTLA4 are two receptors that have opposing functions in T-cell stimulation. Interaction of CD86 with CD28 promotes a number of T-cell activities, whereas the binding of CD86 to CTLA4 inhibits T-cell responses. The PO3 antibody has been reported to block some co-stimulatory functions of CD86. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

<b>Specificity</b>	CD86
<b>Immunogen</b>	Mouse B-cell line, BCL1.
<b>Isotype</b>	IgG2b
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	PO3
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	FC
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	100 µg

<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cd86 CD86 antigen [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	CD86
<b>Synonyms</b>	CD86; CD86 antigen; B7; B70; MB7; B7-2; B7.2; CLS1; Ly58; ETC-1; Ly-58; MB7-2; Cd28l2; TS/A-2; T-lymphocyte activation antigen CD86; activation B7-2 antigen; early T cell costimulatory molecule-1; early T-cell costimulatory molecule 1;
<b>Entrez Gene ID</b>	<a href="#">12524</a>
<b>Protein Refseq</b>	<a href="#">NP_062261</a>
<b>UniProt ID</b>	P42082
<b>Chromosome Location</b>	16 B5; 16 25.72 cM
<b>Pathway</b>	Adaptive Immune System; Allograft rejection; Autoimmune thyroid disease; CD28 co-stimulation; CD28 dependent PI3K/Akt signaling; CD28 dependent Vav1 pathway; CTLA4 inhibitory signaling; Cell adhesion molecules (CAMs);
<b>Function</b>	receptor binding;