

## Product datasheet for **TA386246**

### **Cd40 Rabbit Monoclonal Antibody [Clone ID: 3/23]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	3/23
Applications:	FC, IHC, IP
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was raised by immunising Lou rats with murine CD40-hy1-Fc according to the protocol by Hasbold et al. (Eur J Immunol. 1994)



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<b>Specificity:</b>	<p>This antibody is specific for murine CD40, a 48 kD type I transmembrane glycoprotein also known as Bp50. It is a member of the tumor necrosis factor receptor (TNFR) superfamily and is expressed on B cells, basal epithelial cells, macrophages, follicular dendritic cells, endothelial cells, and a subset of CD34+ hematopoietic progenitors. CD40 regulates B cell development/maturation, Ig isotype switching and, in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with its ligand CD154 (gp39), which is expressed on activated T cells, is important in costimulation and immune regulation.</p> <p>This antibody has been used in various FACS analyses, for instance, to determine the immunoregulatory properties of primary colonic epithelial cells (Telega et al., 2000), to validate if eicosapentaenoic acid induces prolonged survival of cardiac allografts and generates regulatory T cells (Iwami et al., 2009), to characterise Siglec-H as a novel endocytic receptor expressed on murine plasmacytoid dendritic cell precursors (Zhang et al., 2006), to delineate the mechanisms for the activation of dendritic cells and induction of T cell responses by HPV 16 L1/E7 chimeric virus-like particles (Freyschmidt et al., 2004), and to investigate the role of epigenetic modification and immunomodulation in a murine prostate cancer model (Sulek et al., 2017). In a study by White et al. (J Immunol. 2011), the parental anti-mouse CD40 3/23 (rat IgG2a) mAb was first reformatted to mouse IgG1 (m1) and IgG2a (m2a) versions. The new variants were then utilised in immunohistochemistry, SPR, and in vitro phagocytosis assays and assessments for B cell proliferation, activation, and survival to confirm that interaction with FcγRIIB is critical for the agonistic activity of anti-CD40 amAb (White et al. 2011).</p>
<b>Formulation:</b>	PBS with 0.02% Proclin 300.
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
<b>Stability:</b>	3 years from dispatch.
<b>Gene Name:</b>	CD40 antigen
<b>Database Link:</b>	<a href="#">Entrez Gene 21939 Mouse P27512</a>
<b>Synonyms:</b>	Bp50; CDW40; MGC9013; p50; TNFRSF5
<b>Note:</b>	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.