

Rat monoclonal anti mouse CD40

(Azide-free & Low endotoxin)

ORDERING INFORMATION

Catalog Number:	gAP-0012
Size:	1.00 mg
Storage:	< -20° C
Immunogen:	Recombinant mouse CD40 protein
Ig Type:	Rat IgG2
Clone	AP-MAB0819
Endotoxin Level	< 0.002EU/μg IgG*
Applications:	Blocking and activation

Description: CD40 is a 48 kD type I transmembrane glycoprotein, also known as Bp50. It is a member of the tumor necrosis factor receptor (TNFR) superfamily, 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) expressed on activated T cells, is important in costimulation and immune regulation.

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a Rat immunized with Recombinant mouse CD40 protein

Formulation: The IgG fraction of **culture supernatant** was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS, **Azide Free**).

Reconstitution: Reconstitute the antibody with sterile PBS and the reconstituted antibody can be aliquoted and stored frozen at < -20 for at least for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C.

Specificity: The antibody was selected for its ability to detect CD40 on B lymphocytes and other antigen-presenting cells, such as macrophages, follicular dendritic cells etc.

***Endotoxin Level:** Extremely low level of LPS (< 0.002EU/μg IgG)

Application(s):

- 1. blocking of CD40/CD154 interaction**
- 2. *In vitro* and *in vivo* activation of CD40 expressing APCs**

*** The antibody is produced by in vitro culture and for Research Use Only.**