

Product datasheet for **AM32705PU-N**

Cd40 Rat Monoclonal Antibody [Clone ID: FGK45]

Product data:

Product Type:	Primary Antibodies
Clone Name:	FGK45
Applications:	FC
Recommended Dilution:	Flow Cytometry (Cell Surface): 0.125-0.5 µg/10 ⁶ cells. Functional Application: Activates B and NK cells <i>in vivo</i> and <i>in vitro</i> . For <i>in vivo</i> studies use the Azide Free CD40 Antibody Cat.-No AM32705AF-N.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	Widely used stimulatory MAb to CD40. Shown to indirectly activate natural killer (NK) cells, producing significant antitumor and antimetastatic effects. Effective in boosting immune responses against infectious agents and can potentially be used to treat chronic autoimmune inflammatory processes. This Monoclonal antibody <i>FGK45</i> recognizes Mouse CD40. Other species not tested.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD40 antigen
Database Link:	Entrez Gene 21939 Mouse P27512



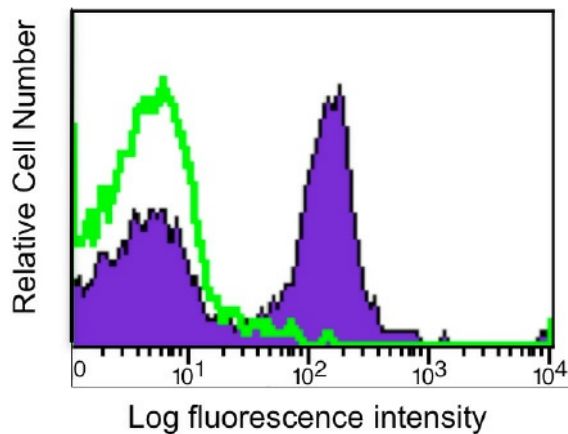
[View online »](#)

Background:

CD40 belongs to the TNF-receptor superfamily and is essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. The interaction of CD40-CD40L is necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. CD40 is constitutively expressed by antigen presenting cells, including dendritic cells, B cells and macrophages. Consistent with its widespread expression on normal cells, CD40 is also expressed on a wide range of tumor cells, including non-Hodgkin's and Hodgkin's lymphomas, myeloma and some carcinomas including nasopharynx, bladder, cervix, kidney and ovary.

Synonyms:

TNFRSF5, CDw40, Bp50

Product images:

BALB/c Mouse splenocytes were stained with a 0.125 $\mu\text{g}/10^6$ cells anti-Mouse CD40 Antibody Cat.-No AM32705PU-N (Clone FGK45) (purple) or Negative Control (green), followed by PE-conjugated Goat anti-Rat Ig (1/200 dilution).