



## CD40 Antibody [FGK45]

CATALOG NUMBER: 36-147

### Specifications

<b>SPECIES REACTIVITY:</b>	Mouse
<b>TESTED APPLICATIONS:</b>	FACS, Func
<b>APPLICATIONS:</b>	Functional Application: Activates B and NK cells in vivo and in vitro. For in vivo studies use the preservative free antibody.
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	Recognizes mouse CD40.
<b>IMMUNOGEN:</b>	Recombinant mouse CD40 fusion protein.
<b>HOST SPECIES:</b>	Rat

### Properties

<b>PURIFICATION:</b>	>95% (SDS-PAGE)
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	Liquid. In PBS containing 0.02% sodium azide.
<b>CONCENTRATION:</b>	1 mg/ml
<b>STORAGE CONDITIONS:</b>	Stable for at least 1 year after receipt when stored at -20°C.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	IgG2a
<b>CONJUGATE:</b>	Unconjugated

### Additional Info

<b>ALTERNATE NAMES:</b>	Tumor Necrosis Factor Receptor Superfamily Member 5; CD40L Receptor
<b>ACCESSION NO.:</b>	P27512
<b>PROTEIN GI NO.:</b>	172046819
<b>OFFICIAL SYMBOL:</b>	Cd40
<b>GENE ID:</b>	21939

### Background

<b>BACKGROUND:</b>	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.
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**FOR RESEARCH USE ONLY**

