

Bulk Anti-Human CD40 (G28.5) Antibody

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Bio X Cell:

ICH1156 is [up to 37% cheaper](#) for industry than the equivalent product BE0189 from Bio X Cell. **Product Benefits:**

ichorbio's bulk anti-human CD40 antibody (G28.5) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD40

Clone:

G28.5

Size:

ichorbio's G28.5 *in vivo* antibody is available in the following bulk sizes: 1mg, 5mg, 25mg, 50mg and 100mg
ichorbio regularly manufactures multi-gram amounts of our anti-CD40 G28.5 clone - please contact us for pricing.

Isotype:

Mouse IgG1 ?

Other Names:

Tumor necrosis factor receptor superfamily member 5, BP50, CD40L receptor

Uniprot:

[P27512](#)

Host:

Mouse

Species Reactivity:

Mouse

Specificity:

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Clone G28.5 recognizes an epitope on human CD40

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

CD40 is widely expressed on antigen-presenting cells such as dendritic cells, B cells, macrophages, and monocytes, in addition to non-immune endothelial cells, basal epithelial cells, and a variety of tumors.

Background:

CD40 is a 48 kD type I transmembrane glycoprotein that is a member of the TNFR superfamily. CD40, in association with its ligand CD154 (CD40L) - a 39 kD protein, acts as a costimulatory molecule for the activation of B cells, dendritic cells, monocytes, and other antigen presenting cells. CD40 is involved in Ig isotype switching and dendritic cell maturation, as well as the activation, differentiation and proliferation of B cells. CD40 interacts with TNFR2 and is involved in the regulation of signal transduction. CD40 is a potential target for cancer immunotherapy. Blocking the interaction of CD40 with its ligand (CD154) is the sought-after therapeutic objective for preventing and/or improving both autoimmune diseases and transplant rejection. Studies have shown that monoclonal antibodies that block CD154 in human clinical trials resulted in unanticipated vascular complications. Hence, an interest in the therapeutic potential for antagonist mAbs specific for human CD40 is emerging. Antibodies of particular therapeutic interest are those that do not inhibit CD40 signaling via physical competition with CD154. Additionally, the interaction of CD40 and its ligand (CD154) is found to be essential for amyloid-beta-induced microglial activation, thus plays a significant part in Alzheimer disease pathogenesis.

Concentration:

1.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp. Mycoplasma pulmonis Sendai virus Mouse hepatitis virus Pneumonia virus of mice Minute virus of mice Mouse parvovirus (MPV1-5) Theiler's murine encephalomyelitis virus Murine norovirus Reovirus 3 Mouse rotavirus Ectromelia virus Lymphocytic choriomeningitis virus Polyoma virus Lactate dehydrogenase-elevating virus Mouse adenovirus (MAD1, MAD2) Mouse cytomegalovirus K virus Mouse thymic virus Hantaan virus Corynebacterium bovis Corynebacterium spp. (HAC2)

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Functional Assays, Flow Cytometry

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Alternative Names:

- AI326936 antibody
- B cell associated molecule CD40 antibody
- B cell surface antigen CD40 antibody
- B cell-associated molecule antibody
- B-cell surface antigen CD40 antibody
- Bp50 antibody
- CD 40 antibody
- CD40 antibody
- CD40 antigen (TNF receptor superfamily member 5) antibody
- CD40 antigen antibody
- CD40 molecule antibody
- CD40 molecule, TNF receptor superfamily member 5 antibody
- CD40 protein antibody
- CD40 type II isoform antibody
- CD40L receptor antibody
- CDw40 antibody

- GP39 antibody
- HIGM1 antibody
- IGM antibody
- IMD3 antibody
- MGC9013 antibody
- Nerve growth factor receptor related B lymphocyte activation molecule antibody
- OTTHUMP00000031699 antibody
- OTTHUMP00000031700 antibody
- p50 antibody
- T-BAM antibody
- TBAM antibody
- TNF receptor superfamily member 5 antibody
- TNFRSF5 antibody
- TRAP antibody
- Tumor necrosis factor receptor superfamily , member 5 antibody
- Tumor necrosis factor receptor superfamily member 5 antibody
- Tumor necrosis factor receptor superfamily member 5 precursor antibody
- Tumor necrosis factor receptor superfamily, member 5, isoform CRA_a antibody