

Anti-CD40 antibody, mouse monoclonal (5C3) (FITC)

Product code	72-032
Size	50 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium.
Immunogen	Recombinant extracellular domain of CD40
Isotype	Mouse IgG1κ
Reactivity	Human
Special notes	Conjugation: FITC
Application	<ol style="list-style-type: none"> 1. Flow-cytometry 2. Immunofluorescence staining (1/10~1/100) 3. Immunohistochemistry (acetone-fixed frozen section)
Background	<p>CD40 is a 45-50-kDa glycoprotein belonging to the tumor necrosis factor (TNF) receptor superfamily. CD40 is specifically expressed on the surface of B cells and specialized antigen-presenting cells such as dendritic cells and macrophages. CD40 interacts with the CD40 ligand (CD154) which is found primarily on T cells, playing a role in both humoral and cell-mediated immune responses. Activation of CD40 on B cells by CD40 ligand causes B cell proliferation, differentiation, immunoglobulin isotype switching, germinal center formation, and stimulation of the humoral memory response. CD40 is 45-48 kDa type I integral membrane glycoprotein present on peripheral blood and tonsillar B cells, but not expressed on terminally differentiated B cells.</p>
Data Link	Swiss-Prot P25942
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 72-032 Anti-CD40 antibody, mouse monoclonal (5C3) (FITC)

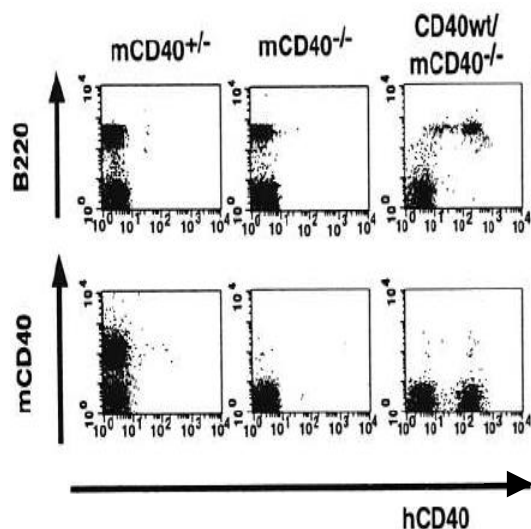


Fig.1 Flow-cytometry analysis of human CD40 expression in transgenic mouse. Splenocytes from m (mouse) CD40^{+/+}, mCD40^{-/-} and hCD40 wild type/mCD40^{-/-} mice were stained with monoclonal antibodies against mCD40, B220 and hCD40 (5C3) and analyzed by flow cytometry. hCD40 molecules were expressed specifically on B220⁺ B cells.

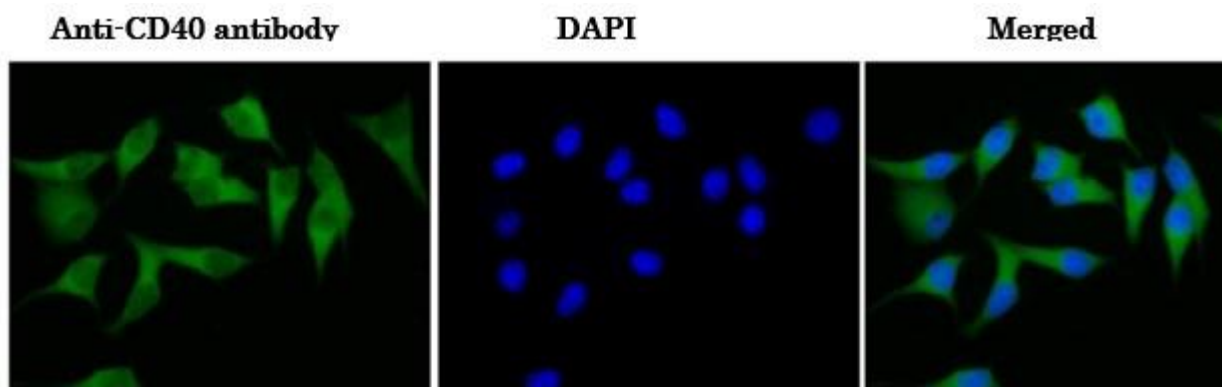


Fig.2 Immunofluorescence staining of CD40 in MCF7 cells with FITC-conjugated anti-CD40 antibody. Cells were fixed with 4% paraformaldehyde, permeabilized with 0.25% Triton X-100 and stained with FITC-conjugated anti-CD40 antibody (5C3) at 1/20 dilution (left). Nuclear DNA was stained with DAPI (middle). Merged image is shown on right.

Related products

72-030 Anti-CD40 antibody, mouse monoclonal (5C3)

72-031 Anti-CD40 antibody, mouse monoclonal (5C3) (biotin)