

**ARG62838**  
anti-CD40 antibody [HI40a]Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [HI40a] recognizes CD40
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone HI40a recognizes CD40 (BP50), a 48 kDa type I single chain transmembrane glycoprotein expressed on normal and neoplastic B cells, but not on terminally differentiated plasma cells. CD40 antigen is also present on Hodgkin's and Reed-Sternberg cells, follicular dendritic cells, some macrophages, basal epithelial cells and endothelial cells.
Host	Mouse
Clonality	Monoclonal
Clone	HI40a
Isotype	IgG1
Target Name	CD40
Species	Human
Immunogen	Human CD40a
Conjugation	Un-conjugated
Alternate Names	CDw40; CD antigen CD40; Tumor necrosis factor receptor superfamily member 5; Bp50; CD40L receptor; CDW40; TNFRSF5; p50; B-cell surface antigen CD40

### Application Instructions

Application table	Application	Dilution
	FACS	1 µg/ml
Application Note	FACS: The purified antibody is effective for indirect immunofluorescence staining of human cells by FACS analysis using 1 µg/ml. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Purification Note	0.2 µm filter sterilized.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Concentration	1 mg/ml

<b>Storage instruction</b>	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
<b>Note</b>	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

---

<b>Database links</b>	<a href="#">GeneID: 958 Human</a> <a href="#">Swiss-port # P25942 Human</a>
<b>Gene Symbol</b>	CD40
<b>Gene Full Name</b>	CD40 molecule, TNF receptor superfamily member 5
<b>Background</b>	CD40 is a costimulatory molecule of the TNF receptor superfamily and is expressed on many cell types, such as B cells, monocytes/macrophages, dendritic cells, endothelial cells, fibroblasts or vascular smooth muscle cells. Interaction of CD40 and its ligand CD154 (CD40L) is required for the generation of antibody responses to T-dependent antigens as well as for the development of germinal centers and memory B cells. In monocytes/macrophages CD40 engagement induces production of pro-inflammatory cytokines and chemokines. CD40-CD154 interactions are also critical for development of CD4 T cell-dependent effector functions. CD40 links innate and adaptive immune responses to bacterial stimuli and serves as an important regulator affecting functions of other costimulatory molecules.
<b>Function</b>	Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. [UniProt]
<b>Research Area</b>	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody
<b>Calculated Mw</b>	31 kDa