

## Product datasheet for **DDX0131A488-100**

### CD40 Mouse Monoclonal Antibody [Clone ID: MAB89]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MAB89
Applications:	FC, IF
Recommend Dilution:	<b>FACS surface, ImmunoFluorescence</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	anti- $\mu$ activated tonsillar human B cells
Specificity:	human CD40
Formulation:	100 $\mu$ g in 200 $\mu$ l / 50 $\mu$ g in 100 $\mu$ l PBS 50% glycerol Label: Alexa Fluor 488
Concentration:	0.5 mg/ml
Purification:	QMA Hyper D ion exchange chromatography
Conjugation:	Alexa Fluor 488
Gene Name:	CD40 molecule
Database Link:	<a href="#">Entrez Gene 958 Human</a>



[View online »](#)

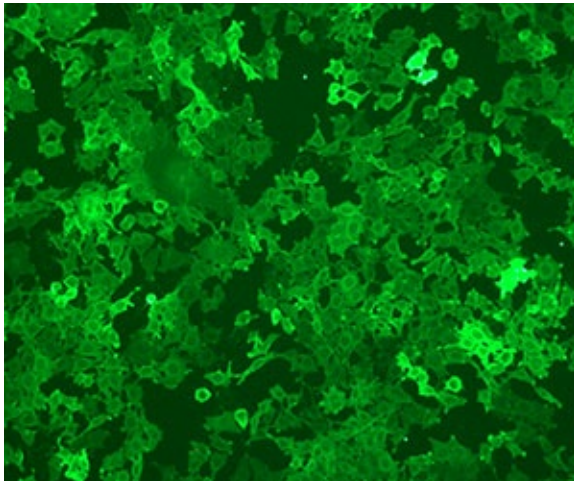
**Background:**

CD40 (48 to 50 kDa) is a transmembrane glycoprotein mainly expressed on the surface of B cells and also expressed on monocytes, dendritic cells, and thymic epithelium. CD40 is a member of the tumor necrosis factor (TNF) receptor superfamily, which includes the low affinity nerve growth factor (NGF) receptor and CD95/Fas. CD40 is the receptor for CD40 ligand. CD40L (CD40L, CD154, gp39, and TRAM) belongs to the TNF gene family and is expressed more widely than CD40, predominantly on activated CD4+ T cells. Following interaction with CD40 ligand, CD40 mediates a number of major immunoregulatory functions, central to the control of thymus dependent humoral immunity and may be critical in the development of cell mediated immune responses. Other biological actions include B cell homotypic adhesion, proliferation, immunoglobulin isotype switch, and secretion. Activation of CD40 has also been shown to inhibit the growth of certain B cell lymphomas and to induce the death of transformed cells of mesenchymal or epithelial origin.

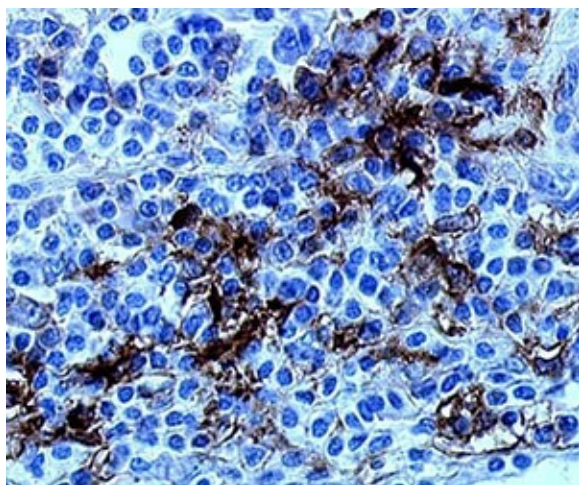
*(Vallé A. et al, 1989; Eur. J. Immunol., 19: 1463-1469; O' Sullivan B. et al, 2003; Crit. Rev. Immunol., 23: 83-107)*

**Synonyms:**

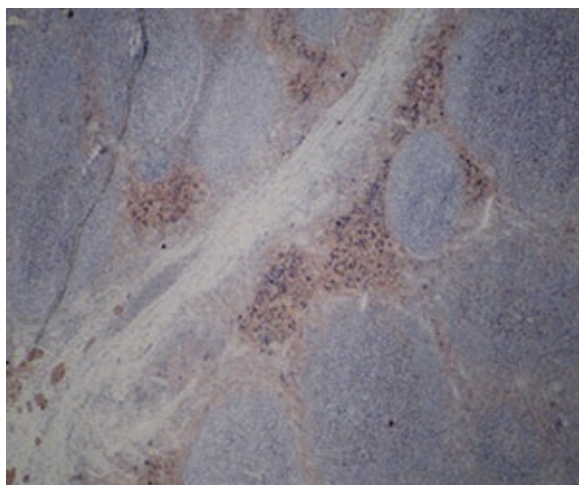
TNFRSF5, CDw40, Bp50

**Product images:**

CD40-transfected L cells stained with mAb89 (DDX0131)



IHC staining of human lymph node frozen section with clone mAb89 (DDX0131)



IHC staining of human tonsil frozen section with clone mAb89 (DDX0131)