

## Product datasheet for **TA386097**

### CD40 Rabbit Monoclonal Antibody [Clone ID: A54 scFv]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	A54 scFv
Applications:	BI, ELISA
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Immunogen:	A54 human anti-CD40 scFv was selected from the n-CoDeR phage display library after 4 rounds of selections using biotinylated CD40-Fcy fusion protein as bait and subsequent capture of bound phages on streptavidin-coated magnetic beads.
Specificity:	<p>A54 binds specifically to the D1 domain of CD40 (and can only bind to the intact i.e. non-truncated version of CD40 and when an AD2 peptide tag has not been added) and can recognise CD40 on a B cell line (BJAB). This scFv binds to CD40 (immobilized by amine coupling) with a KD within the range of 40nM. CD40 is a glycoprotein of the TNFR superfamily and is expressed on all mature B cells, dendritic cells, activated monocytes, some endothelial cells and some epithelium including the thymus. CD40 binds to the membrane protein CD154 of the TNF superfamily and this interaction is required for the secondary immune responses and germinal centre formation.</p> <p>A54 is able to block the CD40-CD154 interaction by around 60-80% and can also induce CD40 signalling in human B cells when at 'unusually high concentrations' (The CD40 receptor - target, tool and technology, Ellmark, 2002). This scFv can also be used for ELISA studies (PMID: 12153507)</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	CD40 molecule



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**Database Link:** [Entrez Gene 958 Human P25942](#)

**Synonyms:** Bp50; CDW40; MGC9013; p50; TNFRSF5

**Note:** This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.