

## Product datasheet for **SM057F**

### Cd40Ig Hamster Monoclonal Antibody [Clone ID: 39H5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	39H5
Applications:	FC
Recommended Dilution:	Flow Cytometry: use 10 µl of neat antibody to label 10e6 cells in 100 µl.
Reactivity:	Mouse
Host:	Hamster
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	L cells transfected with CD40L.
Specificity:	This antibody recognises the CD154 cell surface antigen.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD40 ligand
Database Link:	<a href="#">Entrez Gene 21947 Mouse P27548</a>



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**Background:**

CD154 is a 39kD cell surface glycoprotein also known as CD40 ligand. CD40, a member of the TNF receptor family, is a cell surface protein expressed on B cells, dendritic cells, monocytes, thymic epithelial cells and, at low levels, on T cells. Signaling through CD40 plays an important role in the proliferation and differentiation of B cells, and is critical for immunoglobulin (Ig) class switching. The membrane-anchored CD40-Ligand is expressed almost exclusively on activated CD4+ T lymphocytes. Failure to express CD40L leads to "immunodeficiency with hyper-IgM", a disease characterized by failure to produce IgG, IgA and IgE. The human CD40L gene codes for a 261 amino acid type II transmembrane protein, which contains a 22 amino acid cytoplasmic domain, a 24 amino acid transmembrane domain, and a 215 amino acid extracellular domain. The soluble form of CD40L is an 18 kDa protein comprising the entire TNF homologous region of CD40L and is generated in vivo by an intracellular proteolytic processing of the full length CD40L.

**Synonyms:**

CD40 ligand, CD40-L, CD40LG, TNFSF5, TRAP, GP39