



20150217ML

# Anti-Human TNFSF5 (#14B9)

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#14B9)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant human TNFSF5 EC domain
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M682</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of TNFSF5 extracellular domain.

## Target Background

<b>Synonyms (Target):</b>	CD40LG; IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L
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CD40 ligand (CD40L), also known as CD154, TNFSF5, TRAP or gp39, is a 260 amino acid type II transmembrane glycoprotein belonging to the TNF family. Murine CD40L consists of a 22 aa cytoplasmic domain, a 24 aa transmembrane domain, and 214 aa extracellular domain bearing a single glycosylation site. CD40L is expressed predominantly on activated CD4<sup>+</sup> T lymphocytes, and also found in other types of cells, including NK cells, mast cells, basophils and eosinophils. Murine CD40L shares 78% amino acid sequence identity with human CD40L. Native bioactive soluble CD40L exists. Soluble human trimeric CD40L secreted by stimulated T cells has been shown to be generated by proteolysis in the microsomes. Both membrane bound and soluble CD40L induce similar effects on B cells.

## Database References Target

<b>Protein RefSeq:</b>	NP_000065.1
<b>Uniprot ID:</b>	P29965
<b>mRNA RefSeq:</b>	NM_000074.2

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human TNFSF5.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB, IHC (P)

**Recommended usage:**

IHC (paraffine): 1:20 - 1:100

WB: Use at 1:500-1000

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**