



# Anti-CD40LG monoclonal antibody, clone TRAP-1 (CABT-47141MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Product Overview** Mouse anti Human CD154 antibody, clone TRAP-1 recognises the human CD40 ligand, also known as CD154, TNF-related activation protein (TRAP) or T-cell antigen Gp39. CD154 is a 261 amino acid ~32kDa single pass, type-1 transmembrane glycoprotein (UniProt: P29965). CD154 is expressed on activated T lymphocytes, predominantly CD4 +ve and also on some basophils and mast cells. Mouse anti Human CD154 antibody, clone TRAP-1 binds to CD154 at an epitope distinct from the CD40 binding site. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| <b>Specificity</b>        | CD40LG                                                                                     |
| <b>Immunogen</b>          | Mouse myeloma cell line transfected with human CD40L (CD154)                               |
| <b>Isotype</b>            | IgG1                                                                                       |
| <b>Source/Host</b>        | Mouse                                                                                      |
| <b>Species Reactivity</b> | Human                                                                                      |
| <b>Clone</b>              | TRAP-1                                                                                     |
| <b>Conjugate</b>          | Unconjugated                                                                               |
| <b>Applications</b>       | FC                                                                                         |
| <b>Format</b>             | Purified IgG - liquid                                                                      |
| <b>Size</b>               | 200 µg                                                                                     |
| <b>Preservative</b>       | See individual product datasheet                                                           |
| <b>Storage</b>            | in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may |

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

|                     |                                                                                                                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name           | <a href="#">CD40LG CD40 ligand [ Homo sapiens (human) ]</a>                                                                                                                                                                                                  |
| Official Symbol     | CD40LG                                                                                                                                                                                                                                                       |
| Synonyms            | CD40LG; CD40 ligand; IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L; CD40-L; CD40 antigen ligand; T-cell antigen Gp39; T-B cell-activating molecule; TNF-related activation protein; tumor necrosis factor (ligand) superfamily member 5; |
| Entrez Gene ID      | <a href="#">959</a>                                                                                                                                                                                                                                          |
| Protein Refseq      | <a href="#">NP_000065</a>                                                                                                                                                                                                                                    |
| UniProt ID          | P29965                                                                                                                                                                                                                                                       |
| Chromosome Location | Xq26                                                                                                                                                                                                                                                         |
| Pathway             | Adaptive Immune System; Allograft Rejection; Allograft rejection; Asthma; Autoimmune thyroid disease; CD40/CD40L signaling; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Calcium signaling in the CD4+ TCR pathway;                    |
| Function            | CD40 receptor binding; cytokine activity; tumor necrosis factor receptor binding;                                                                                                                                                                            |