

## ARG20930 anti-CD40 antibody [1C10] (low endotoxin)

Package: 250 µg  
Store at: -20°C

### Summary

|                     |                                                                                                                                                     |
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| Product Description | Azide free and low endotoxin Rat Monoclonal antibody [1C10] recognizes CD40                                                                         |
| Tested Reactivity   | Ms                                                                                                                                                  |
| Tested Application  | BL, Cell-Act , FACS, IP                                                                                                                             |
| Specificity         | Mouse CD40.                                                                                                                                         |
| Host                | Rat                                                                                                                                                 |
| Clonality           | Monoclonal                                                                                                                                          |
| Clone               | 1C10                                                                                                                                                |
| Isotype             | IgG2a, kappa                                                                                                                                        |
| Target Name         | CD40                                                                                                                                                |
| Species             | Mouse                                                                                                                                               |
| Immunogen           | sCD40                                                                                                                                               |
| Conjugation         | Un-conjugated                                                                                                                                       |
| Alternate Names     | CDw40; CD antigen CD40; Tumor necrosis factor receptor superfamily member 5; Bp50; CD40L receptor; CDW40; TNFRSF5; p50; B-cell surface antigen CD40 |

### Application Instructions

| Application table | Application                                                                                                                                | Dilution        |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                   | BL                                                                                                                                         | Assay-dependent |
|                   | Cell-Act                                                                                                                                   | Assay-dependent |
|                   | FACS                                                                                                                                       | Assay-dependent |
|                   | IP                                                                                                                                         | Assay-dependent |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                 |

### Properties

|                     |                                                                                                                                                                                                                                                                                                                   |
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| Form                | Liquid                                                                                                                                                                                                                                                                                                            |
| Purification Note   | Low endotoxin                                                                                                                                                                                                                                                                                                     |
| Buffer              | PBS                                                                                                                                                                                                                                                                                                               |
| Concentration       | 0.5 mg/ml                                                                                                                                                                                                                                                                                                         |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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| Database links | <a href="#">GeneID: 21939 Mouse</a><br><a href="#">Swiss-port # P27512 Mouse</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Symbol    | CD40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Full Name | CD40 antigen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Background     | This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2014] |
| Function       | Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. [UniProt]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Research Area  | Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Calculated Mw  | 31 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |