

# Hamster Anti-CTLA4 Monoclonal Antibody

**Cat. No.** DMABT-H18898    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b>    | Hamster Anti-CTLA4 Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>              | Hamster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Antigen Description</b> | CD152, also known as CTLA-4 or Ly-56, is a 44kD member of the immunoglobulin superfamily. It is expressed on activated T and B lymphocytes. CD152 is similar to CD28 in amino acid sequence, structure, and genomic organization and these two receptors share common B7 family counter-receptors (B7-1, B7-2). Whereas CD28 delivers a costimulatory signal in T cell activation, CTLA-4 negatively regulates cell-mediated immune responses. CD152 is thought to play a role in the induction and maintenance of immunological tolerance as well as the development of protective immunity and thymocyte regulation. |
| <b>Target</b>              | CTLA4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>           | Mouse CTLA-4-mouse IgG2a fusion protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Isotype</b>             | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clone</b>               | VD20-5C0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| <b>Conjugation</b>          | APC                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>         | Flow Cyt                                                                                                                                                                                                                                                                                                                                       |
| <b>Preparation</b>          | The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.                                                                                                                                                                    |
| <b>Usage recommendation</b> | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 1.0$ $\mu$ g per million cells in 100 $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application. |
| <b>Concentration</b>        | 0.2 mg/ml                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>              | The antibody solution should be stored undiluted at 4 °C and protected from prolonged exposure to light. Do not freeze.                                                                                                                                                                                                                        |
| <b>Size</b>                 | 25 $\mu$ g; 100 $\mu$ g                                                                                                                                                                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Ctla4 cytotoxic T-lymphocyte-associated protein 4 [ Mus musculus ]                                                                                                      |
| <b>Official Symbol</b> | CTLA4                                                                                                                                                                   |
| <b>Synonyms</b>        | CTLA4; cytotoxic T-lymphocyte-associated protein 4; cytotoxic T-lymphocyte protein 4; CD152 antigen; cytotoxic T-lymphocyte-associated antigen 4; Cd152; Ly-56; Ctla-4; |
| <b>Gene ID</b>         | 12477                                                                                                                                                                   |

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| mRNA Refseq    | NM_009843                                                                                                                                                                                                                                                                                                                                                                                                |
| Protein Refseq | NP_033973                                                                                                                                                                                                                                                                                                                                                                                                |
| Pathway        | Adaptive Immune System, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; CTLA4 inhibitory signaling, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; |

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