



# Armenian Hamster Anti-Mouse CD80 (B7-1) Monoclonal antibody, clone 16-10A1 (CABT-L4366)

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

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                                              |
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| <b>Product Overview</b>   | The 16-10A1 monoclonal antibody reacts with mouse CD80 also known as B7-1. CD80 is a 60 kDa Ig superfamily member and is expressed by activated B cells and constitutively by monocytes and dendritic cells. |
| <b>Target</b>             | Mouse CD80 (B7-1)                                                                                                                                                                                            |
| <b>Immunogen</b>          | CHO cell line transfected with mouse CD80                                                                                                                                                                    |
| <b>Isotype</b>            | IgG2                                                                                                                                                                                                         |
| <b>Source/Host</b>        | Armenian Hamster                                                                                                                                                                                             |
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                        |
| <b>Clone</b>              | 16-10A1                                                                                                                                                                                                      |
| <b>Purification</b>       | Protein A purified.<br>Purity>95%. Determined by SDS-PAGE                                                                                                                                                    |
| <b>Conjugate</b>          | Functional Grade                                                                                                                                                                                             |
| <b>Applications</b>       | in vivo CD80 blockade, FC                                                                                                                                                                                    |
| <b>Molecular Weight</b>   | 150 kDa                                                                                                                                                                                                      |
| <b>Format</b>             | 0.2 µM filtered liquid. Purified from tissue culture supernatant in an animal free facility                                                                                                                  |
| <b>Concentration</b>      | Lot specific                                                                                                                                                                                                 |

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| <b>Size</b>         | 5 mg                                                                                                                                                                                                        |
| <b>Buffer</b>       | PBS, pH 8.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]<br><br>Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay<br>Related dilution buffer: CABT-LB01 |
| <b>Preservative</b> | None                                                                                                                                                                                                        |
| <b>Storage</b>      | The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.                                                                                     |
| <b>Ship</b>         | Wet ice                                                                                                                                                                                                     |

## BACKGROUND

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| <b>Introduction</b> | The 16-10A1 monoclonal antibody reacts with mouse CD80 also known as B7-1. CD80 is a 60 kDa Ig superfamily member and is expressed by activated B cells and constitutively by monocytes and dendritic cells. This ligand binds to CD28 to provide a costimulatory signal necessary for T cell activation and survival, and cytokine production. Additionally, CD80 binds to CTLA-4 which inhibits T cells. This antibody has been shown to block CD80 in vivo. |
| <b>Keywords</b>     | CD80;CD80 antigen;B71;Ly53;TSA1;Cd28l;Ly-53;MIC17;T-lymphocyte activation antigen<br>CD80;B7 protein;activation B7-1 antigen;                                                                                                                                                                                                                                                                                                                                  |

## GENE INFORMATION

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | CD80 antigen                                                                                                                            |
| <b>Synonyms</b>        | CD80; CD80 antigen; B71; Ly53; TSA1; Cd28l; Ly-53; MIC17; T-lymphocyte activation antigen<br>CD80; B7 protein; activation B7-1 antigen; |