



20190319BB

# Anti-Mouse CD80 (#MAB0713)

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

|                  |                            |
|------------------|----------------------------|
| <b>Cat.-no.:</b> | <b>103-M144</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 Armenian Hamster immunized with recombinant Mouse CD80 protein. IgG fraction of the culture supernatant was purified by Protein G affinity chromatography.

## Target Background

|                           |  |
|---------------------------|--|
| <b>Synonyms (Target):</b> | Cd80; B71; Ly53; TSA1; Cd281; Ly-53; MIC17 |
|---------------------------|--|

B7-1 (CD80) and B7-2, together with their receptors CD28 and CTLA4, constitute one of the dominant costimulatory pathways that regulate T and B cell responses. Although both CTLA4 and CD28 can bind to the same ligands, CTLA4 binds to B7-1 and B7-2 with a 20-100 fold higher affinity than CD28 and is involved in the downregulation of the immune response. B7-1 is expressed on activated B cells, activated T cells, and macrophages. B7-2 is constitutively expressed on interdigitating dendritic cells, Langerhans cells, peripheral blood dendritic cells, memory B cells, and germinal center B cells. Additionally, B7-2 is expressed at low levels on monocytes and can be upregulated through interferon gamma. B7-1 and B7-2 are both members of the Immunoglobulin superfamily.

## Database References Target

|                        |             |
|------------------------|-------------|
| <b>Protein RefSeq:</b> | NP_033985.3 |
| <b>Uniprot ID:</b>     | Q00609      |
| <b>mRNA RefSeq:</b>    | NM_009855.2 |

## Product Specifications

|                              |                                |
|------------------------------|--------------------------------|
| <b>Host</b>                  | Armenian Hamster               |
| <b>Reactivity against</b>    | Mouse                          |
| <b>Clonality</b>             | Monoclonal Antibody            |
| <b>Clone</b>                 | (#MAB0713)                     |
| <b>Isotype</b>               | IgG                            |
| <b>Purification</b>          | Protein G/A chromatography     |
| <b>Antigen</b>               | Recombinant Mouse CD80 protein |
| <b>Formulation</b>           | lyophilized                    |
| <b>Reconstitution buffer</b> | PBS (sterile)                  |

**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 mouse CD80.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

IHC, FC

**Recommended usage:**

IHC (paraffine): 1:100 - 1:300

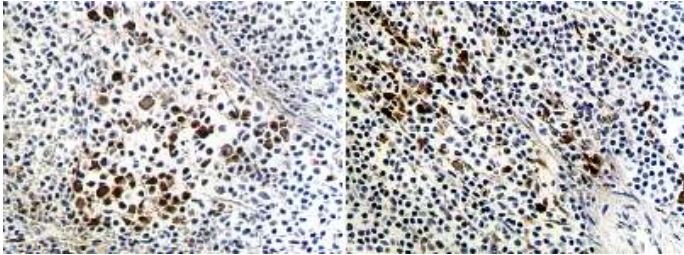
Flow cytometry: 1:100 - 1:1000

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

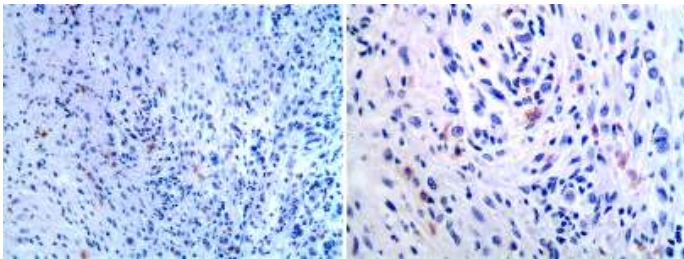


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### Application/Handling



**Fig. 1:** Formalin fixed and paraffin embedded mouse spleen tissue section was subjected to IHC staining of CD80 using 103-M144 (Left panel: Red Pulp, Right panel: White Pulp)



**Fig. 2:** Formalin fixed and paraffin embedded mouse tumor section was subjected to IHC staining of CD80 using 103-M144 (Left panel: x 20; Right panel: x 40)