BD Horizon™ Technical Data Sheet

PE-CF594 Hamster Anti-Mouse CD152

**Product Information**

<table>
<thead>
<tr>
<th>Material Number:</th>
<th>564332</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate Name:</td>
<td>Ctl4; CTLA-4; Cytotoxic T-lymphocyte-associated protein 4; Ly-56</td>
</tr>
<tr>
<td>Size:</td>
<td>50 µg</td>
</tr>
<tr>
<td>Concentration:</td>
<td>0.2 mg/ml</td>
</tr>
<tr>
<td>Clone:</td>
<td>UC10-4F10-11</td>
</tr>
<tr>
<td>Immunogen:</td>
<td>Mouse CTLA-4 IgG2a Fusion</td>
</tr>
<tr>
<td>Isotype:</td>
<td>Armenian Hamster IgG1, κ</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>QC Testing: Mouse</td>
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<tr>
<td>Storage Buffer:</td>
<td>Aqueous buffered solution containing BSA and ≤0.09% sodium azide.</td>
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</tbody>
</table>

**Description**

The UC10-4F10-11 monoclonal antibody specifically binds to CD152, which is also known as Cytotoxic T-lymphocyte-associated antigen 4 (CTLA-4). CD152 is expressed on activated T lymphocytes 2-3 days after stimulation through T cell receptor. CTLA-4 has significant similarity to CD28 in amino acid sequence, structure, and genomic organization. Furthermore, CD152 and CD28 share common B7 family counter-receptors. Unlike CD28, CD152 expression appears to be restricted to activated T cells and CD25+CD4+ regulatory T (Treg) cells. Whereas CD28 delivers a costimulatory signal required for T-cell activation, CTLA-4 is a negative regulator of cell-mediated immune responses. CD152 may play roles in induction and/or maintenance of immunological tolerance, regulation of protective immunity, and autoimmune responses, and regulation of some aspects of thymocyte maturation. This hamster mAb to a mouse leukocyte antigen does not cross-react with rat leucocytes.

This antibody is conjugated to BD Horizon PE-CF594, which has been developed exclusively by BD Biosciences as a better alternative to PE-Texas Red®. PE-CF594 excites and emits at similar wavelengths to PE-Texas Red® yet exhibits improved brightness and spectral characteristics. Due to PE having maximal absorption peaks at 496 nm and 564 nm, PE-CF594 can be excited by the blue (488-nm), green (532-nm) and yellow-green (561-nm) lasers and can be detected with the same filter set as PE-Texas Red® (eg, 610/20-nm filter).

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with BD Horizon™ PE-CF594 under optimum conditions, and unconjugated antibody and free PE-CF594 were removed.

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Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

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564332 Rev. 1
References


10. Waterhouse P, Bachmann MF, Penninger JM, Ohashi PS, Mak TW. Normal thymic selection, normal viability and decreased lymphoproliferation in T cell cytometry, Immunoprecipitation, Stimulation)

11. CD28/CTLA-4 costimulatory interactions with B7-1/B7-2.

12. Waterhouse P, Bachmann MF, Penninger JM, Ohashi PS, Mak TW. Normal thymic selection, normal viability and decreased lymphoproliferation in T cell cytometry, Immunoprecipitation, Stimulation)


