Rat Anti-Mouse CD3ε

Overview

Clone: C363.29B
Isotype: Rat (Lewis) IgG2b
Immunogen: IL-4 producing Th2 cell lines including D10
Specificity: Mouse CD3ε; Mr 25 kDa
Alternate Name(s): CD3 epsilon

Description

CD3ε, a member of the immunoglobulin superfamily of cell surface receptors, is comprised of five invariable chain ranging in size from 16-28 kDa and is closely associated with the T cell antigen receptor (TCR). It is expressed on all T cells of all mouse strains. CD3 plays a major role in signaling during antigen recognition, leading to T-cell activation. The monoclonal antibody C363.29B recognizes an epitope on the 25 kDa ε chain of the CD3/TCR complex. In the presence of Fc receptor-bearing accessory cells, soluble C363.29B can activate primed and naive T cell in vitro. Immobilized C363.29B monoclonal antibody can also activate both normal T lymphocytes and cloned T cell lines provided the appropriate accessory signals are present. The monoclonal antibody is cytolytic, easily used for cell surface staining, and a good immunoprecipitating antibody.

Applications

FC – Quality tested 1,7-12
IHC-FS – Reported in literature 2-4
IHC-PS – Reported in literature 5,6
IP – Reported in literature 1
Depletion – Reported in literature 1
Activ – Reported in literature 1,4
CMCD – Reported in literature 1

Working Dilutions

Flow Cytometry

<table>
<thead>
<tr>
<th>Format</th>
<th>Size</th>
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<tbody>
<tr>
<td>FITC and BIOT conjugates</td>
<td>≤ 3 μg/10⁶ cells</td>
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<tr>
<td>PE, APC, SPRD, and CY5 conjugates</td>
<td>≤ 1 μg/10⁶ cells</td>
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For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

For Research Use Only.  Not for Diagnostic or Therapeutic Use.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2.  No preservatives or amine-containing buffer salts added.  Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN₃.  Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.  Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent.  Store at 2-8°C.  Do not freeze!
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.  Store at 2-8°C.  Do not freeze!
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS.  Aliquot and store at or below -20°C.
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃.  Store at 2-8°C.

Warning

Some reagents contain sodium azide.  Please refer to product specific (M)SDS.

References