YR0246

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In vivo Grade Recombinant Anti-mouse CD25 rat IgG1 Lamda Monoclonal Antibody

Catalog No.: YR0246

Basic Information

Molecular Weight
150kDa

Endotoxin
<1EU/mg (<0.001EU/μg)Determined by LAL gel clotting assay

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SDS-PAGE

Background

The in vivo grade recombinant anti-mouse CD25 monoclonal antibodies are based on the rat monoclonal antibody anti-CD25 (mouse) with the clone number of PC61, PC61.5 or PC61.5.3. The rat IgG1 lamda monoclonal antibody has been validated and reported for use in immunoprecipitation (IP), immunohistochemistry (IHC), Flow Cytometry (FC), and various functional assays, such as in vivo depletion of CD25+CD4+ Treg cells, in vitro blocking of IL-2 binding to low- and high-affinity receptors, and growth inhibition of IL-2-dependent T-cell lines. Expression of CD25, together with CD4 and FOXP3, is considered a phenotypic signature for Treg cells. In vivo depletion of mouse CD25(+)CD4(+)FoxP3(+) Treg cells using the rat PC61 monoclonal antibody is widely used to characterize the Treg function. The PC61 monoclonal antibody specifically binds to an epitope of CD25 which is distinct from the IL-2 binding site and from those recognized by the 3C7 and 7D4 monoclonal antibodies. By doing so, the antibody blocks binding of IL-2 to CD25.

Reported Applications

immunoprecipitation (IP),immunohistochemistry (IHC),Flow Cytometry (FC),and various functional assays,such as in vivo depletion of CD25+CD4+ Treg cells,in vitro blocking of IL-2 binding to low- and high-affinity receptors,and growth inhibition of IL-2-dependent T-cell lines.

Contact

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Immunogen Information

Clone
PC61.5

Isotype
rat IgG1 lambda

Immunogen
IL-2-dependent cytolytic mouse T cell clone B6.1

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS

Product Information

Production
Purified from cell culture supernatant in an animal-free facility

Purification
Protein A/G

Storage
Store at -20℃