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In vivo Grade Recombinant Anti-mouse CD28 Monoclonal Antibody, Syrian Hamster IgG2 (Clone: 37.51)

Catalog No.: YR0385

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 hamster monoclonal antibody (clone: 37.51) specifically binds to the mouse CD28 protein. CD28 is a critical costimulatory receptor belonging to the immunoglobulin superfamily. Upon binding to its ligands CD80 (B7-1) and CD86 (B7-2)—expressed on antigen-presenting cells (APCs)—CD28 triggers intracellular signaling cascades that promote T cell proliferation, cytokine production, and the survival of activated T cells. Dysregulation of CD28 signaling is linked to autoimmune diseases, immune deficiency, and impaired antitumor immunity, making it a central target for studying immune activation and modulation in murine models.

Reported Applications

ELISA,flow cytometry,neutralization,functional assays such as bioanalytical PK and ADA assays,and those assays for studying biological pathways affected by the mouse CD28 protein.

Immunogen Information

Clone
37.51

Isotype
Hamster IgG2

Immunogen

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

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

Purification
Protein A/G

Storage
Store at -20℃