Rabbit anti-human IgG FC (YTE mutation) Specific Monoclonal Antibody, Clone 6H2

Catalog NO.: YR0510

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

Related studies have shown that M252Y/S254T/T256E (YTE) mutations in the Fc region of IgG antibodies can prolong the half-life of therapeutic antibodies, optimize the pharmacokinetic characteristics, and reduce the frequency of administration. We developed Rabbit Anti-human IgG-FC (YTE mutation) Specific Monoclonal Antibody that effectively captures and stably binds to IgG Fc segment YTE mutants. The YTE mutant for therapeutic IgG has important application value in pharmacodynamic/pharmacokinetic studies and detection technology.

Reported Applications

ELISA

SPR

Immunogen Information

Clone
6H2

Isotype
Rabbit IgG1

Immunogen

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS pH 7.3

Contact

Product Information

order@abclonal.com
service@abclonal.com
www.abclonal.com

Production

Purified from cell culture supernatant in an animal-free facility

Purification

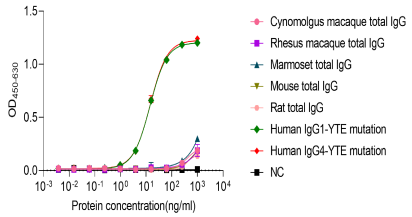
Protein A/G

Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)

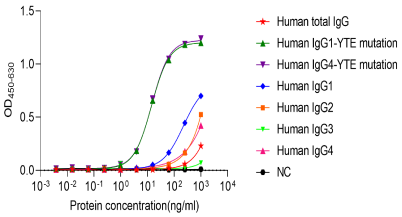
Validation Data

Rabbit Anti-human IgG-FC(YTE mutation) Specific Monoclonal Antibody (Clone 6H2)

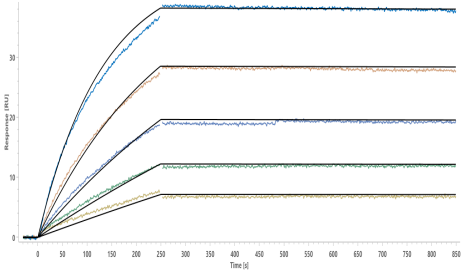


A microtiter plate was coated overnight with Rabbit Anti-human IgG-FC (YTE mutation) Specific Monoclonal Antibody (Clone 6H2) at a concentration of 1 µg/mL. After washing and blocking with PBST + 5% skim milk, increasing concentrations of various biotinylated antibodies was added. Horseradish Peroxidase conjµgated Neutravidin, (Thermo Fisher, 31001) was used for final detection.

Rabbit Anti-human IgG-FC(YTE mutation) Specific Monoclonal Antibody (Clone 6H2)

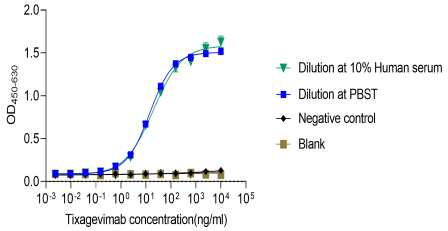


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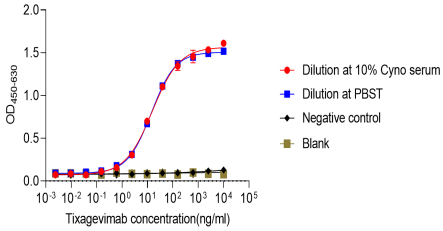
Rabbit Anti-human IgG-FC (YTE mutation) Specific Monoclonal Antibody (Clone 6H2) captured on Protein A Chip can bind Human IgG1-FC (YTE) mutation with an affinity constant of 0.2 nM as determined in SPR assay.

Pharmacokinetic Assay Antigen Capture Format



A microtiter plate was coated overnight with SARS-CoV-2 RBD protein at a concentration of 2 µg/ml. After washing and blocking with PBST + 5% skim milk, 10% cynomolgus and human serum was added spiked with increasing concentrations of tixagevimab(from 10 µg/ml). Rabbit anti-human IgG-FC(YTE mutation) specific monoclonal antibody(Clone 6H2) was added. Another unrelated rabbit mAb used for negative control. Detection was performed using HRP conjugated goat anti-rabbit 2nd Ab. No cynomolgus serum added sample is used as control.

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