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Recombinant Rabbit Anti-PEG Monoclonal Antibody□clone 59H1

Catalog No.: YR0513

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

PEG (Polyethylene glycol) is a polyether compound with many applications from industrial manufacturing to medicine. PEGylation is a technology that covalently couples non-toxic, hydrophilic polyethylene glycol (PEG) to the drug. It is an FDA-approved method for the delivery of protein drugs. PEG modification can reduce the drug immunogenicity and antigenicity. PEGylated drug decelerates renal excretion, improves stability towards proteolysis and increases its half-life in blood. Accurate and sensitive quantification of PEG conjugates is important for PEG conjugated product development and pharmaceutical study. Polyethylene glycol (PEG) antibody is a useful tool for the detection of PEGylated molecules.

Reported Applications

ELISA,SPR

Immunogen Information

Clone
59H1

Isotype
IgG1

Immunogen
PEG conjugated to KLH

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS, 0.5mM EDTA, 10% Glycerol, pH 9.4

Contact

400-999-6126

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www.abclonal.com.cn

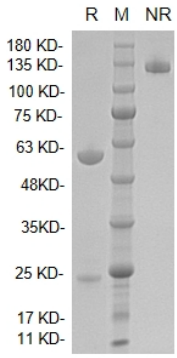
Product Information

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

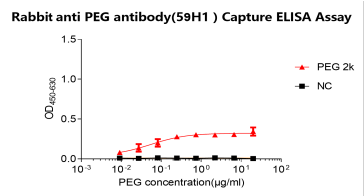
Purification
Protein A/G

Storage
Store at -20℃

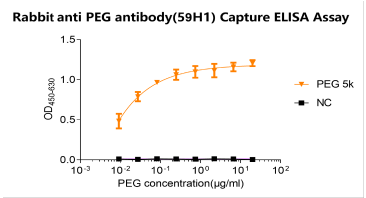
Validation Data



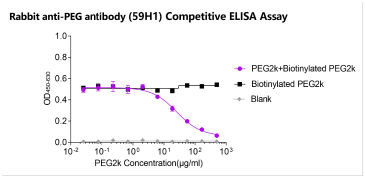
Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 59H1) was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



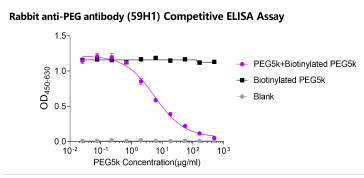
A microtiter plate was coated overnight with Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 59H1). After washing and blocking with PBST + 5% skim milk, increasing concentrations of biotinylated PEG was added. Horseradish Peroxidase conjμgated Neutravidin was used for final detection.



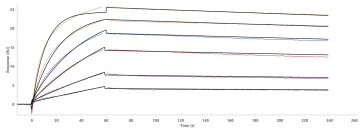
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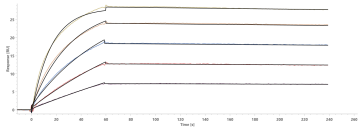
A microtiter plate was coated overnight with Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 59H1). After washing and blocking with PBST + 5% skim milk. Biotinylated PEG was premixed with increasing concentrations of free PEG and into microtiter plate. Detection was performed using HRP conjugated Neutravidin.



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Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 59H1) captured on C5 Chip can bind PEG2K with an affinity constant of 1.23 nM as determined in SPR assay.



Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 59H1) captured on C5 Chip can bind PEG5K with an affinity constant of 18.2 pM as determined in SPR assay.