YR0512

Leader in Biomolecular Solutions for Life Science

Recombinant Rabbit Anti-PEG Monoclonal Antibody , clone 58H11

Catalog No.: YR0512

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
58H11

Isotype
IgG1

Immunogen
PEG conjugated to KLH

RecommendedIsotype Control(s)

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

Contact

www.abclonal.com

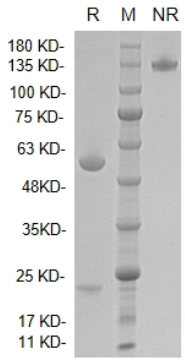
Product Information

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

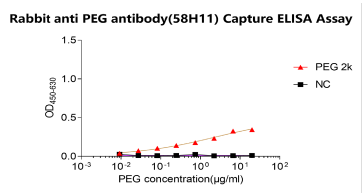
Purification
Protein A/G

Storage
Store at -20℃

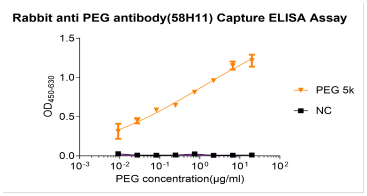
Validation Data



Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 58H11) 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 58H11). After washing and blocking with PBST + 5% skim milk, increasing concentrations of biotinylated PEG was added. Horseradish Peroxidase conjugated Neutravidin was used for final detection.



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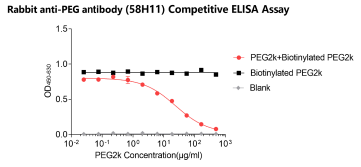
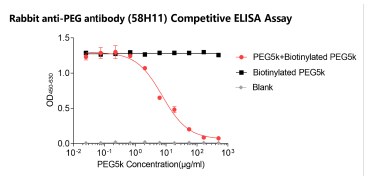


A microtiter plate was coated overnight with Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 58H11). After washing and blocking with PBST + 5% skim milk. Biotinylated PEG was premixed with increasing concentrations of free PEG and into microtiter plate. Detection was performed using HRP conjugated Neutravidin.



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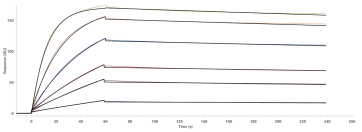
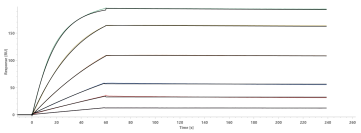


Recombinant Rabbit Anti-PEG Monoclonal Antibody (clone 58H11) captured on C5 Chip can bind PEG2k with an affinity constant of 0.26 nM as determined in SPR assay.



Validation Data

Monoclonal Antibody (clone 58H11) captured on C5 Chip can bind PEG5k with an affinity constant of 0.85 pM as determined in SPR assay.