

Rev06
Update: Nov,03,2023

DATASHEET

THE™ PEG Antibody [Biotin], mAb, Mouse

Cat. No.: A01796

Overview

Specificity	GenScript THE™ PEG Antibody [Biotin], mAb, Mouse detects PEG backbone. The product can detect the variety of PEGs such as PEG40K, PEG20K, PEG5K, PEG12, PEGylated drugs and PEG conjugates.
Host Species	Mouse
Immunogen	PEG conjugated to KLH
Conjugate	Biotin

Applications

Working concentrations for specific applications should be empirically determined by the investigator. The appropriate concentrations may be affected by antigen concentration, the sensitivity of the detection methods, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined.

The following concentration ranges are recommended starting points for this product.

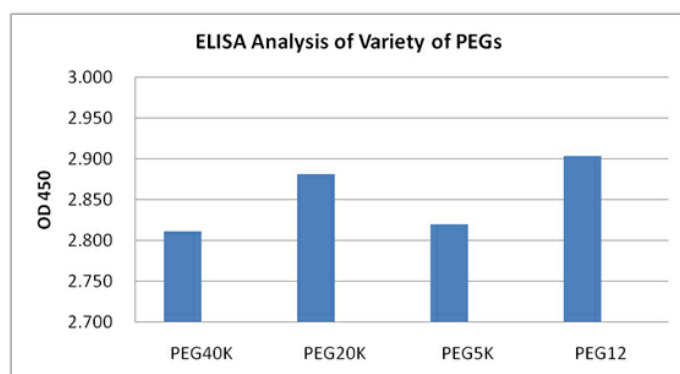
Application	Recommended Usage
Sandwich ELISA	0.1-1.0 µg/ml
Western Blot	0.1-1.0 µg/ml
Competitive ELISA	User-optimized

Properties

Form	Lyophilized
Storage Buffer	lyophilized with PBS, pH 7.4, containing 10 mg/mL BSA and 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL. For long-term storage, adding glycerol to a final concentration of 50% (v/v) in the reconstituted antibody solution is recommended.

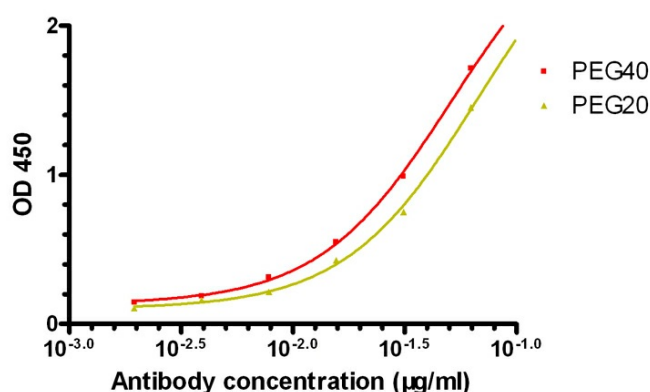
Storage Instructions	The lyophilized product remains stable for up to 1 year at -20 °C from the date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.
Purification	Affinity chromatography
Isotype	Mouse IgM
Clonality	Monoclonal
Clone ID	5E10E9
Note	Some reagents such as Tween-20, Triton X-100 and NP-40 interfere with the PEG antibody interaction due to structural similarity to PEG. Antibody solution should not contain such reagents in the assay of PEGylated molecules.

Examples

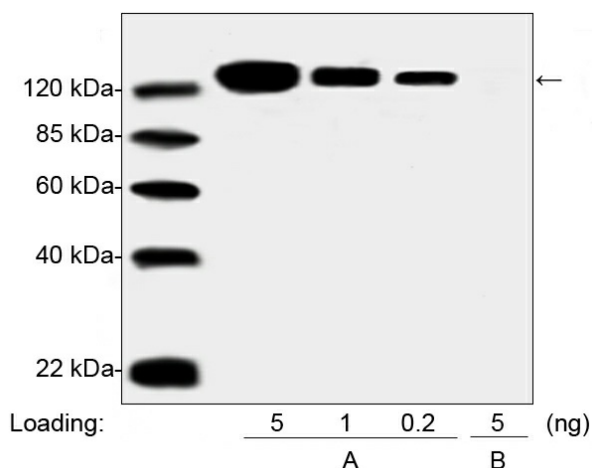


Detection of variety of PEGs using THE™ PEG Antibody [Biotin], mAb, Mouse (Cat.No. A01796-100, 1 µg/ml). The test result showed GenScript PEG Antibody could detect PEGs with different molecular weight and had reactivity to PEG40K, PEG20K, PEG5K and PEG12 (Pierce, MES(PEG)12).

ELISA Analysis of PEG40 and PEG20



ELISA analysis of PEG40 and PEG20 using THE™ PEG Antibody [Biotin], mAb, Mouse (Cat.No. A01796-100).



Background

Target 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. Biotin conjugated PEG Antibody is a useful tool for the detection of PEGylated molecules. GenScript THE™ PEG Antibody [Biotin], mAb, Mouse is PEG antibody conjugated with biotin.

Synonyms : PEG Antibody [Biotin]; PEG Monoclonal Antibody [Biotin]; Anti PEG Antibody [Biotin]; Anti PEG Monoclonal Antibody [Biotin]; Anti Polyethylene glycol Antibody [Biotin]; Polyethylene glycol Antibody [Biotin]; Polyethylene glycol Monoclonal Antibody [Biotin]

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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