



[Go to Product page](#)

Datasheet for ABIN1842277
anti-PEG antibody (Biotin)

3 Images

Overview

Quantity:	100 µg
Target:	PEG
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PEG antibody is conjugated to Biotin
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	PEG conjugated to KLH
Clone:	5E10E9
Isotype:	IgM
Specificity:	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.
Purification:	Affinity chromatography

Target Details

Target:	PEG
Alternative Name:	Polyethylene Glycol (PEG Products)

Target Details

Target Type: Chemical

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. The PEG Antibody [Biotin], mAb, Mouse is PEG antibody conjugated with biotin.

Application Details

Application Notes: 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.

ELISA Detector: 0.1-1.0 µg/mL

Western Blot: 0.1-1.0 µg/mL

ELISA Capturer: customer optimized

Competitive ELISA: customer optimized

Double Antigen Bridging ELISA: customer optimized

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final antibody concentration of 0.5 mg/mL. For long-term storage, we suggest adding glycerol to 50 % to a reconstituted antibody.

Concentration: 0.5 mg/mL

Buffer: lyophilized with PBS, pH 7.4, containing 10 mg/mL BSA and 0.02 % sodium azide.

Preservative: Sodium azide

Handling

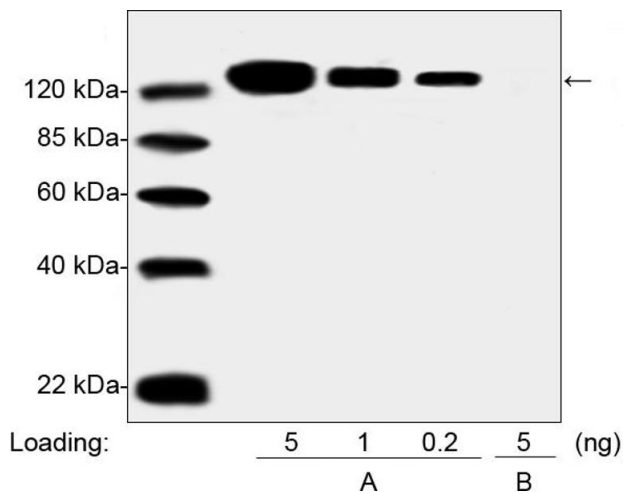
Precaution of Use: WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

Handling Advice: Avoid repeated freezing and thawing.

Storage: -20 °C

Storage Comment: The PEG Antibody [Biotin], mAb, Mouse should be stored lyophilized until use. It remains stable in lyophilized form if stored at -20 °C or below. The reconstituted product can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below.

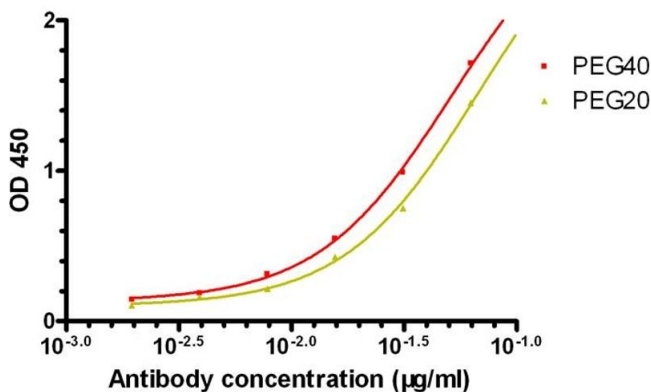
Images



Western Blotting

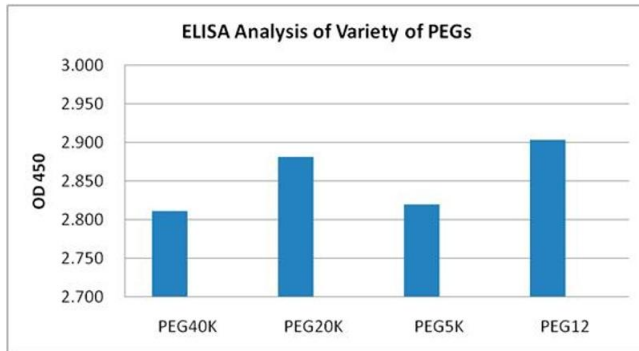
Image 1. Western blot analysis of PEGylated drug (Pegasy, Peginterferon Alfa 2A) and Non-PEGylated Interferon Alfa 2A protein using the PEG Antibody [Biotin], mAb, Mouse (0.2 µg/ml). (A) PEGylated drug (Pegasy, Peginterferon Alfa 2A). (B) Interferon Alfa 2A protein

ELISA Analysis of PEG40 and PEG20



ELISA

Image 2. ELISA analysis of PEG40 and PEG20 using PEG Antibody (Biotin), mAb, Mouse (Cat.No. ABIN1842277).



ELISA

Image 3. Detection of variety of PEGs using the PEG Antibody [Biotin], mAb, Mouse. The test result showed the PEG Antibody could detect PEGs with different molecular weight and had reactivity to PEG40K, PEG20K, PEG5K and PEG12 (Pierce, MES(PEG)12).