

Catalog No

M0024-01

Anti-PEG (24M1)

Type

Mouse Monoclonal

Specificity

Recognizes the repeating subunit (backbone) of Polyethylene Glycol (PEG). Reacts to various PEGylated proteins such as PEG-GCSF, PEG-Erythropoietin and PEG-Interferon, but does not react to unmodified form of the same proteins.

Clone No

24M1

Isotype

IgG2a

Applications

Immunogen used

Polyethylene Glycol (PEG)-conjugated protein

Western Blot analysis of PEGylated and unmodified forms of multiple proteins using Anti-PEG as probe are shown in Figures 1(a) and (b) below.

Purity

Protein-G Purified

Formulation

1X PBS, pH 7.4 with 50% glycerol*

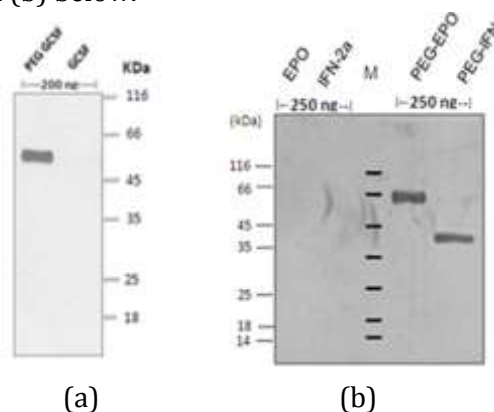


Figure 1: Western blot analysis of (a) PEGylated and unmodified G-CSF and (b) Erythropoietin (EPO) and Interferon (IFN) with Anti-PEG.

Antigens: 200 ng for G-CSF and PEG-GCSF, 250 ng for others
Antibody: 1:1,000 dilution with overnight incubation, **Detection antibody:** Goat anti-Mouse-HRP conjugated (Abexome Cat # C0006-02). **Development** by ECL, exposure time: 3 minutes

ELISA: Recommended Dilution 1:500-1:2,000 for Indirect ELISA.

This antibody is also used in **Sandwich ELISA** to detect PEG-GCSF in human serum (MRD 1:100) and in plasma (MRD 1:10).

About the Immunogen

Polyethylene Glycol (PEG) is a polymer of ethylene oxide available in size variants from 400 Da to 40 kDa, PEG has a number of industrial and biomedical applications. In particular, therapeutic proteins are conjugated with PEG to slow down their clearance from circulation and improve bioavailability. This monoclonal antibody recognizes the repeating subunit (backbone) of the PEG molecule.

* Formulation buffer can be changed based on user requirement.