

DATASHEET

Version: 2013-01-29

THE™ PEG Antibody, mAb, Mouse**Cat. No.:** A01795-100, A01795-500**Host:** Mouse**Size:** 100 µg, 500µg**Immunogen:** PEG conjugated to KLH**Ig Subclass:** IgM**Clone:** 5E10E9**Purification:** Affinity chromatography**Conjugation:** Unconjugated**Description:**

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. GenScript THE™ PEG Antibody, mAb, Mouse is produced from the hybridoma resulting from fusion of Sp2/0 myeloma and lymphocytes obtained from mouse immunized with PEG conjugated to KLH.

Specificity:

GenScript THE™ PEG Antibody, mAb, Mouse has high affinity for the PEG backbone. The antibody binds to the variety of PEG such as PEG40K, PEG20K, PEG5K, PEG12, PEGylated drugs and PEG conjugates.

Fusion Partner:

Spleen cells were fused with SP2/0-Ag14 mouse myeloma cells.

Concentration:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.

Reconstitution:

Reconstitute the lyophilized product with deionized water (or equivalent) to make antibody concentration of 0.5 mg/ml.

Storage:

GenScript THE™ PEG Antibody, mAb, Mouse should be stored lyophilized until use. It remains stable in lyophilized form if stored at -20°C or below. The reconstituted antibody 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.

Applications:

Working concentrations for specific applications should be empirically determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, 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.

ELISA Capturer: 5-10 µg/ml**ELISA Detector:** 0.1-1.0 µg/ml**Competitive ELISA:** customer optimized**Double Antigen Bridging ELISA:** customer optimized**Western Blot:** 0.1-1.0 µg/ml**Immunohistochemistry:** 10-15 µg/ml