

THE™ Protein C Tag Antibody (HPC4), mAb, Mouse

Cat. No.: A01774-40

Size: 40 µg

Synonyms: anti HPC4 Antibody, Protein C Antibody

Description:

Protein C is a Vitamin K-dependent plasma zymogen that is activated by proteolytic cleavage of the thrombin-thrombomodulin complex to form an anticoagulant enzyme. Protein C Tag is a 12 amino acid sequence EDQVDPRLIDGK, which encodes residues 6 through 17 of the heavy chain of the protein. Protein C Tag Antibody is a useful tool in analysis of Protein C fusion proteins.

GenScript THE™ Protein C (HPC4) Tag Antibody, mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with Protein C tag peptide conjugated to KLH.

Immunogen: Protein C tag peptide conjugated to KLH

Host: Mouse

Formulation:

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

Clone: 2H12F4

Ig Subclass: IgG1,κ

Specificity: GenScript THE™ Protein C Tag Antibody, mAb,

Mouse recognizes N-terminal and C-terminal Protein C tagged fusion proteins.

Purification: Protein A affinity column

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, 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. Western blot: 0.1-0.5 µg/ml. Immunoprecipitation: 1-5 µg/ml. Flow cytometry: 1-3 µg for 1 x 10⁶ cells. ICC/IF: 1-3 µg/ml. ELISA: 0.001-0.002 µg/ml.

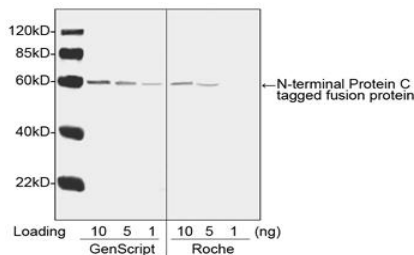
Reconstitution:

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

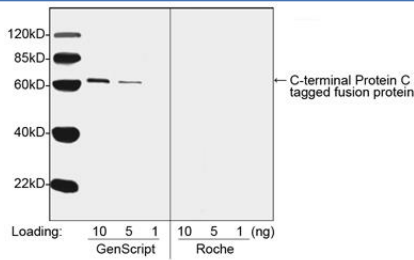
Storage:

GenScript THE™ Protein C Tag 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.

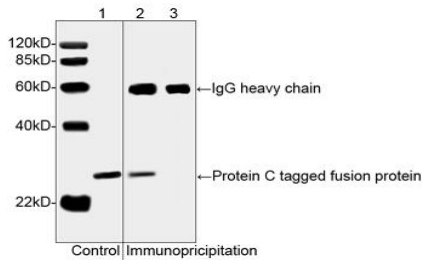
Example



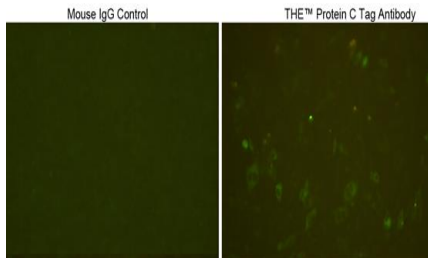
Comparison of Protein C Tag Antibody, mAb, Mouse from (Left: GenScript A01774, 0.2 µg/ml) and Mouse Anti-Protein C mAb (Right: Roche, clone HPC4, 0.2 µg/ml) by Western blot. The assay was performed with purified N-terminal Protein C tagged fusion protein. The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG.



Comparison of Protein C Tag Antibody, mAb, Mouse from (Left: GenScript A01774, 0.2 µg/ml) and Mouse Anti-Protein C mAb (Right: Roche, clone HPC4, 0.2 µg/ml) by Western blot. The assay was performed with purified C-terminal Protein C tagged fusion protein. The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG



Western blot analysis of immunoprecipitates from Protein C tagged protein transfected CHO cell lysates. Lane 1: Protein C tagged protein transfected CHO cell lysates as input control. Lane 2: Immunoprecipitates of the Protein C tagged protein transfected CHO cell lysates with THE™ Protein C Tag Antibody, mAb, Mouse (GenScript, A01774). Lane 3: Immunoprecipitates of the Protein C tagged protein transfected CHO cell lysates with Mouse IgG Control (Whole Molecule), Purified (GenScript, A01007).



Immunocytochemistry/Immunofluorescence analysis of Protein C tagged protein transfected CHO cells using THE™ Protein C Tag Antibody, mAb, Mouse (GenScript, A01774) and Mouse IgG Control (Whole Molecule), Purified (GenScript, A01007) The signal was developed with FITC conjugated Goat Anti-Mouse IgG.