

Rev05  
Update: Nov,03,2023

**DATASHEET**

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

Cat. No.: A01774

## Overview

<b>Specificity</b>	GenScript THE™ Protein C Tag Antibody, mAb, Mouse recognizes N-terminal and C-terminal Protein C tagged fusion proteins.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Protein C tag peptide conjugated to KLH
<b>Conjugate</b>	Unconjugated

## 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.

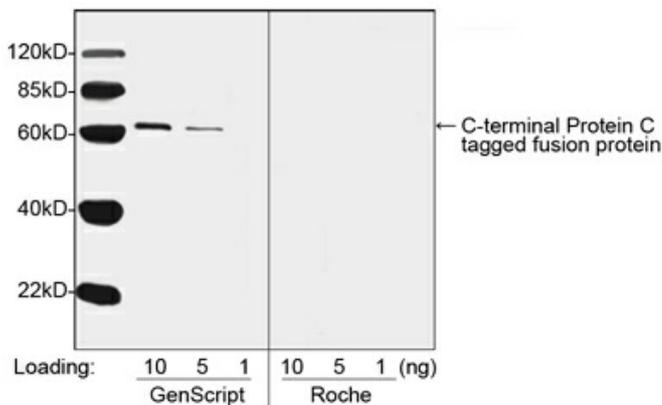
<b>Application</b>	<b>Recommended Usage</b>
Western Blot	0.1-0.5 µg/ml
Immunoprecipitation (IP)	1-5 µg/ml
Flow Cytometry	1-3 µg for 1 x 10 <sup>6</sup> cells
Immunocytochemistry/Immunofluorescence (ICC/IF)	1-3 µg/ml
ELISA	0.001-0.002 µg/ml

## Properties

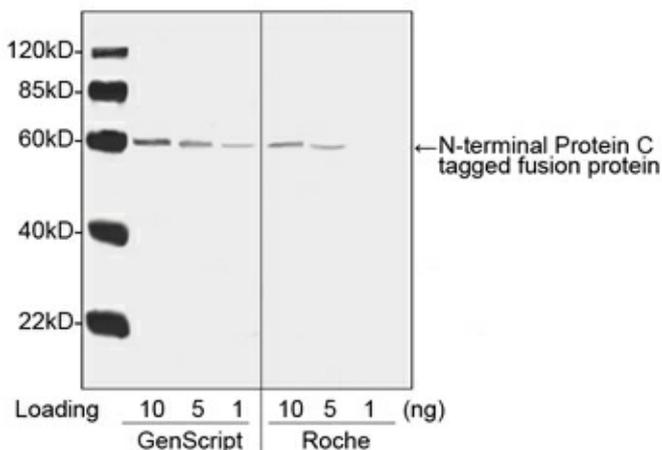
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.

<b>Reconstitution</b>	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.
<b>Storage Instructions</b>	The lyophilized product remains stable for up to 1 year at -20 °C from the date of receipt. Upon reconstitution, ti 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.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	2H12F4

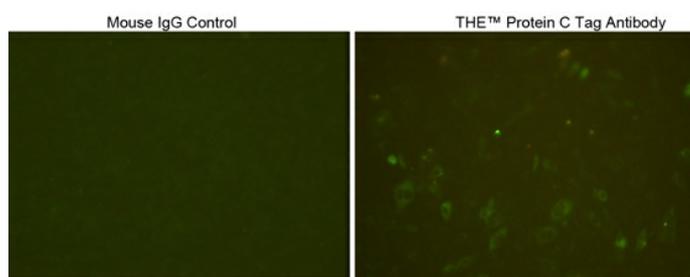
## Examples



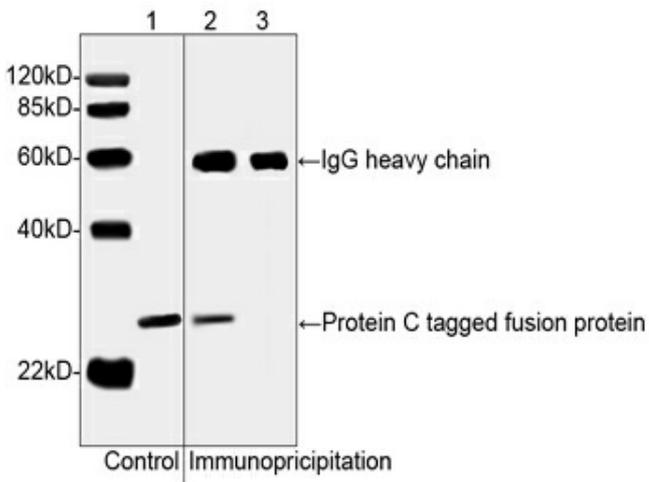
Comparison of Protein C Tag Antibody, mAb, Mouse from (Left: GenScript A01774, 0.2  $\mu\text{g}/\text{ml}$ ) and Mouse Anti-Protein C mAb (Right: Roche, clone HPC4, 0.2  $\mu\text{g}/\text{ml}$ ) by Western blot. The assay was performed with purified C-terminal Protein C tagged fusion protein. The signal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



Comparison of Protein C Tag Antibody, mAb, Mouse from (Left: GenScript A01774, 0.2  $\mu\text{g}/\text{ml}$ ) and Mouse Anti-Protein C mAb (Right: Roche, clone HPC4, 0.2  $\mu\text{g}/\text{ml}$ ) 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.



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.



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).

## Background

**Target Background :** 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.

**Synonyms :** anti HPC4 Antibody, Protein C Antibody

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

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