

Rev05  
Update: Nov,14,2022

**DATASHEET**

# THE™ HA Tag Antibody, mAb, Mouse

Cat. No.: A01244

## Overview

<b>Specificity</b>	THE™ HA Tag Antibody, mAb, Mouse (A01244) recognizes HA tags localized at the C-terminal, N-terminal, and internal region of HA tagged-fusion proteins.
<b>Host Species</b>	Mouse
<b>Immunogen</b>	A KLH coupled synthetic peptide (YPYDVPDYA)
<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.

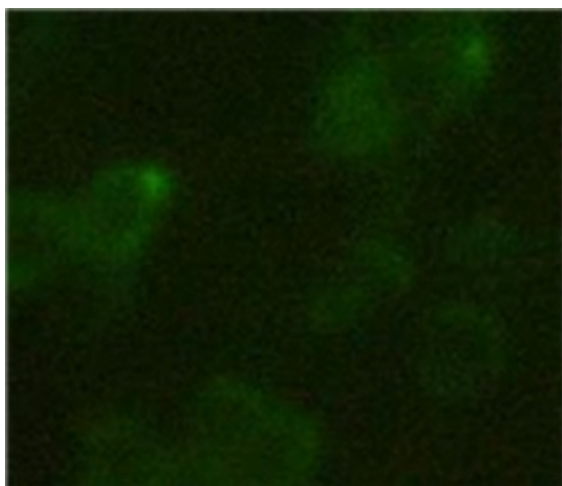
<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.05-0.2 µg/ml
Western Blot	0.1-1.0 µg/ml
Immunoprecipitation (IP)	1 µg/ml
Immunocytochemistry/Immunofluorescence (ICC/IF)	1 µg/ml
Flow Cytometry	1 µg/ml

## Properties

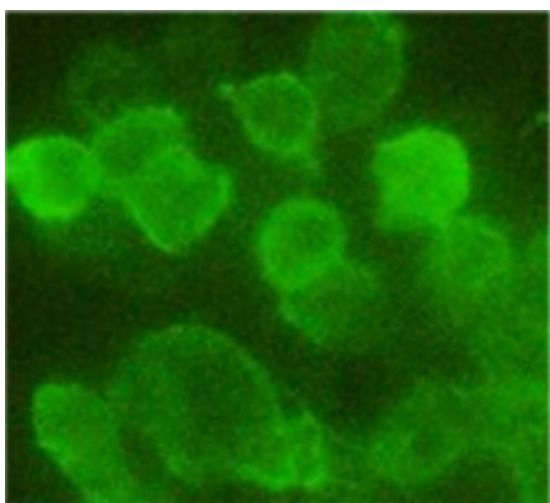
<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	Lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
<b>Reconstitution</b>	Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 0.5 mg/mL.

<b>Storage Instructions</b>	The lyophilized product remains stable for up to 1 year at -20°C from the date of receipt. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Protein A affinity column
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Clone ID</b>	5E11D8
<b>Note</b>	GenScript can offer this product per customer's request including product size, buffer components, etc.

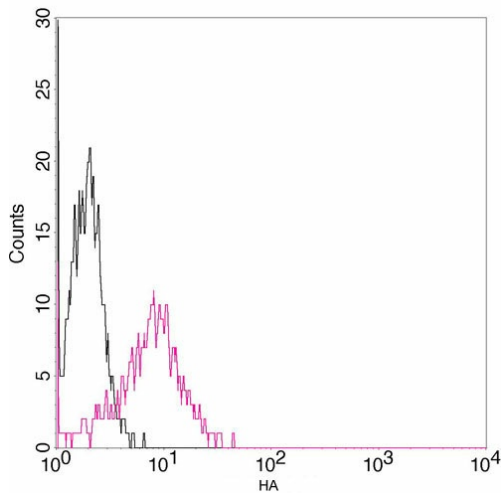
## Examples



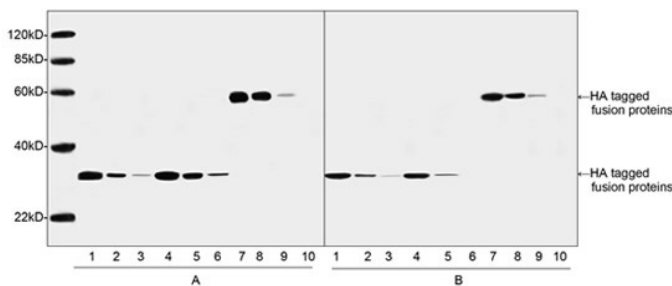
**Figure 1.** The affinity of THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) for a C-terminal HA tag was analyzed in an immunocytochemistry/immunofluorescence analysis of C-terminal HA tag protein-transfected HEK293 cells using THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244). The primary antibody was THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) used at 1 µg/mL concentration. The secondary antibody was Fluorescein Conjugated Anti-mouse IgG used at 2 µg/mL concentration.



**Figure 2.** The affinity of THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) for an N-terminal HA tag was analyzed in an immunocytochemistry/immunofluorescence analysis of N-terminal HA tag protein-transfected HEK 293 cells using THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244). The primary antibody was THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) used at 1 µg/mL concentration. The secondary antibody was Fluorescein Conjugated Anti-Mouse IgG used at 2 µg/mL concentration.



**Figure 3.** The detection of HA tag by THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) was analyzed by flow cytometric analysis of non-transfected or HA gene transfected CHO cells (black and pink, respectively) using THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244). The signal was developed with FITC conjugated Goat Anti-Mouse IgG.



**Figure 4.** Comparative HA-tag detection was analyzed for THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244; panel A), and Competitor's product (panel B) using Western blotting.

In both panels A and B:

Lanes 1-3: 2  $\mu$ L, 0.4  $\mu$ L, 0.08  $\mu$ L N-terminal HA-GST fusion protein in *E. coli* cell lysate

Lanes 4-6: 2  $\mu$ L, 0.4  $\mu$ L, 0.08  $\mu$ L C-terminal HA-GST fusion protein in *E. coli* cell lysate

Lanes 7-9: 500 ng, 250 ng, 125 ng Internal HA tagged Fusion protein (Purified) (GenScript, M0101)

Lane 10: *E. coli* cell lysate

The primary antibody in panel A was THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) used at 1  $\mu$ g/mL concentration. The primary antibody in panel B was Mouse Anti-HA Monoclonal Antibody (Competitor's product) at 1  $\mu$ g/mL concentration. In both cases, the secondary antibody was IRDye800 Conjugated Goat Anti-Mouse IgG.

## Background

**Target Background :** GenScript's THE™ HA Tag Antibody, mAb, Mouse (A01244) is a highly sensitive monoclonal antibody for HA-tagged fusion protein detection. It belongs to our THE™ elite antibody collection. HA, or human influenza hemagglutinin, is a surface glycoprotein required for human influenza virus infectivity. The HA tag does not appear to interfere with the bioactivity or the bio-distribution of recombinant proteins. It has been extensively used as a general epitope tag in expression vectors. THE™ HA Tag Antibody, mAb, Mouse (GenScript, A01244) is a high-affinity monoclonal antibody that can be used to detect HA-tagged proteins. This product detects HA tags derived from an HA molecule corresponding to amino acids 98-106.

**Synonyms :** Mouse Anti-HA-Tag Monoclonal Antibody

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