

Rev05
Update: Nov,14,2022

DATASHEET

THE™ NWSHPQFEK Tag Antibody, mAb, Mouse

Cat. No.: A01732

Overview

Specificity	THE™ NWSHPQFEK Tag Antibody, mAb, Mouse recognizes NWSHPQFEK tags localized at the N-terminal and C-terminal region of Strep II-tagged fusion proteins.
Host Species	Mouse
Immunogen	NWSHPQFEK peptide conjugated to KLH
Conjugate	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.

Application	Recommended Usage
Western Blot	0.1-0.5 µg/ml
Immunoprecipitation (IP)	1-5 µg/ml
Immunocytochemistry/Immunofluorescence (ICC/IF)	1-3 µg/ml
ELISA	0.001-0.002 µg/ml
Flow Cytometry	1 µg/ml

Properties

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

Storage Instructions	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.
Purification	Protein A affinity column
Isotype	Mouse IgG1, κ
Clonality	Monoclonal
Clone ID	5A9F9
Note	GenScript can customize this product per customer's request including product size, buffer components, etc.

Examples

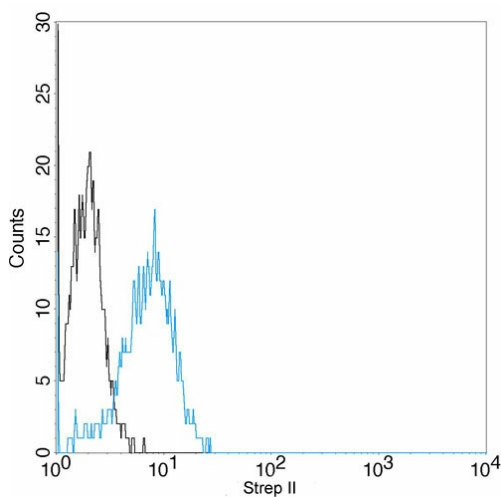


Figure 1. The affinity of THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732) for Strep II was analyzed in a flow cytometric analysis of non-transfected or *Strep II* gene-transfected CHO cells (black and blue, respectively) using THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732). The signal was developed with FITC conjugated Goat Anti-Mouse IgG.

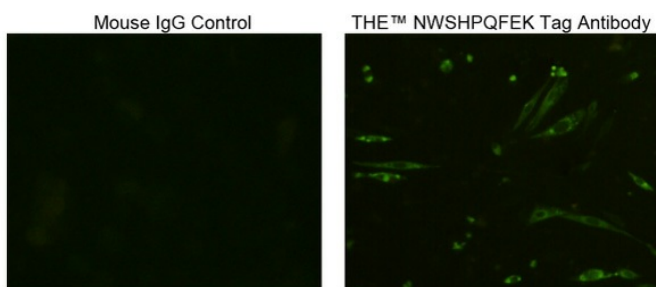


Figure 2. The affinity of THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732) for Strep II was analyzed in an immunocytochemical/immunofluorescence analysis of Strep II tagged protein-transfected HEK293 cells using THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (Cat.No. A01732) and Mouse IgG Control (Whole Molecule), Purified (GenScript, A01007). The signal was developed with FITC conjugated Goat Anti-Mouse IgG.

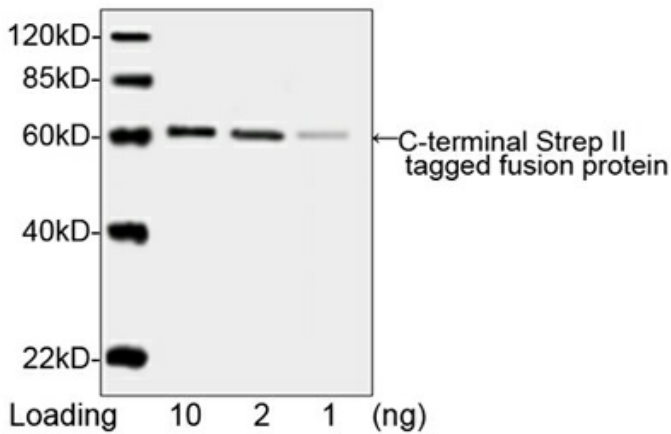


Figure 3. The affinity of THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732) for Strep II was analyzed in a Western blot analysis of C-terminal Strep II tagged fusion protein using THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732, 0.2 µg/mL). The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG.

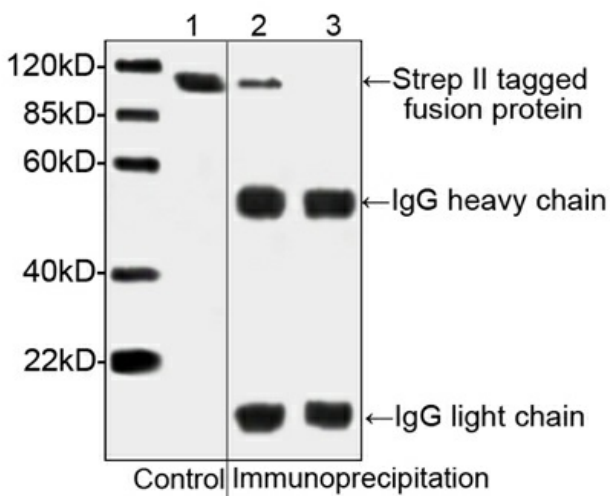


Figure 4. The affinity of THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732) for Strep II in immunoprecipitates was analyzed using Western blotting. Immunoprecipitates from Strep II-tagged protein-transfected HEK293 cell lysates using THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732). Lane 1: Strep II tagged protein transfected HEK293 cell lysates as input control. Lane 2: Immunoprecipitates of NWSHPQFEK-tagged protein-transfected HEK293 cell lysates with THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732). Lane 3: Immunoprecipitates of the non-transfected HEK293 cell lysates with THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732).

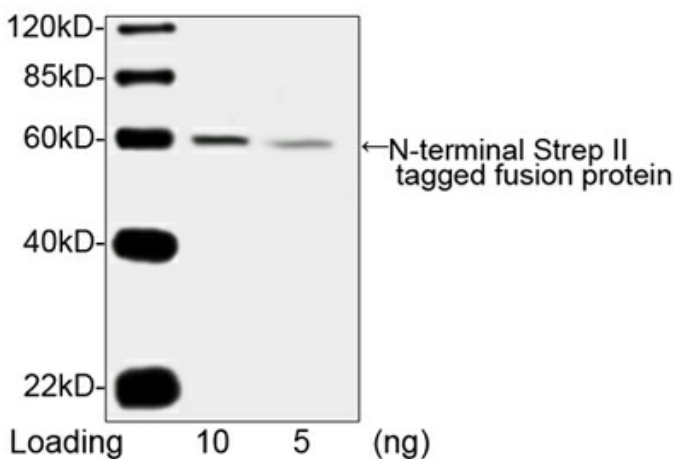


Figure 5. The affinity of THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732) for N-terminal Strep II in an N-terminal Strep II tagged fusion was analyzed by Western blotting using THE™ NWSHPQFEK Tag Antibody, mAb, Mouse (GenScript, A01732, 0.2 µg/mL). The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG.

Background

Target Background : Streptavidin is a tetrameric protein purified from *Streptomyces avidinii*. It is widely used in numerous molecular biological protocols due to its strong affinity for biotin. NWSHPQFEK (Strep tag II) is a nine amino acid peptide with high specificity and affinity towards streptavidin. NWSHPQFEK Tag Antibody is a useful tool in analysis and affinity purification of Strep tag II fusion proteins.

Synonyms : THE™ NWSHPQFEK Tag Antibody,mAb,Mouse

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