

DATASHEET

Version: 2016-08-17

THE™ c-Myc Tag Antibody, mAb, Mouse**Cat. No.:** A00704-100**Size:** 100 µg**Synonyms:** Mouse Anti-c-Myc-tag mAb;**Description:**

The c-Myc protein is a transcription factor, encoded by the c-Myc gene on human chromosome 8q24. c-Myc is commonly activated in a variety of tumor cells and plays an important role in cellular proliferation, differentiation, apoptosis, and cell cycle progression. A synthetic peptide corresponding to residues 410-419 of the human p62 c-myc protein conjugated to KLH is used as immunogen. c-Myc-tag provides a method of localizing gene products in a variety of cell types, to study the topology of proteins and protein complexes and of identifying associated proteins. This product is suitable for detecting the expression level of c-Myc fusion proteins or c-Myc by various immunoassays.

Immunogen: A synthetic peptide EQKLISEEDL coupled to KLH**Host:** Mouse**Conjugation:** Unconjugated**Fusion Partner:**

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

Formulation:

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

Clone: 2G8D5**Ig Subclass:** IgG2a, k**Specificity:** THE™ c-Myc Tag Antibody, mAb, Mouse recognizes C-terminal, N-terminal, and internal c-Myc tagged

fusion proteins expressed in prokaryotic or eukaryotic cells. It also recognizes c-Myc protein in human cancers or cell lines such as Hela cell lysates.

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.

ELISA: 0.05 µg/ml-0.2 µg/ml**Western blot:** 0.05 µg/ml-0.5 µg/ml

Western blot using ONE-HOUR Western™ Kit: For quick results, GenScript ONE-HOUR Western™ Kit L00205C is recommended. 0.9 µg of this antibody is mixed with diluted WB solution (dilute 1.5 ml WB with 1.5 ml of PBST).

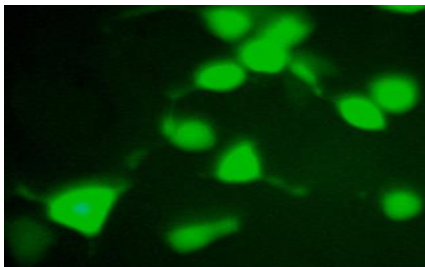
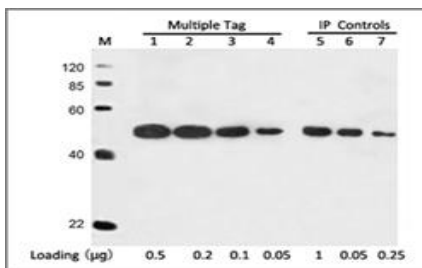
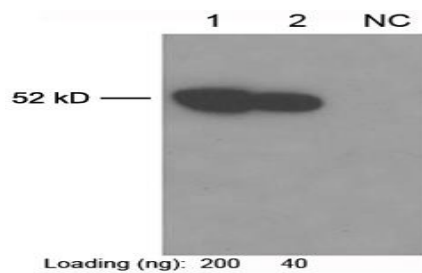
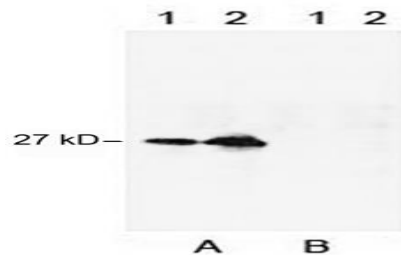
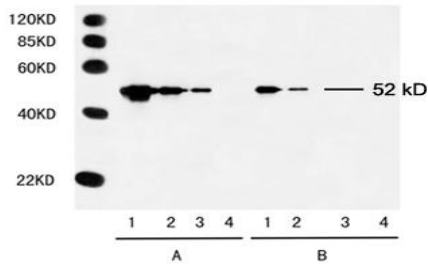
Immunoprecipitation (IP): 1 µg/ml**Immunofluorescent staining:** 1 µg/ml**Other applications:** user-optimized**Reconstitution:**

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

Storage:

The antibody is 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. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example



Multiple Tag Cell Lysate (GenScript, M0100)

Primary antibody:

A. 1 µg/ml THE™ Anti-c-Myc-tag Monoclonal Antibody (Mouse) (GenScript, A00704)

B. 1 µg/ml Anti-c-Myc-tag Monoclonal Antibody (Mouse) (From competitor A, Clone 9E10)

Secondary antibody: Goat Anti-Mouse IgG (H&L) [HRP]

Polyclonal Antibody (GenScript, A00160, 1:10,000)

Loading:

1. Lysate that plasmid containing GST-c-Myc transfected in 293 cells

2. Lysate that plasmid containing c-Myc-GST transfected in 293 cells

Primary antibody:

A. 1 µg/ml Mouse Anti-c-Myc-tag Monoclonal Antibody (GenScript, A00704)

B. 1 µg/ml Mouse Anti c-Myc Monoclonal Antibody (From competitor A, Clone 9E10)

Secondary antibody: Goat Anti-Mouse IgG (H&L) [HRP]

Polyclonal Antibody (GenScript, A00160, 1:10,000)

Lane 1-2: Multiplex tag cell lysate (GenScript, M0100)

NC: 293 cell lysate

Primary antibody: THE™ Anti-c-Myc-tag Monoclonal Antibody (Mouse) (GenScript, A00704)

The Western was performed using One-Step Western™ Blot Kit (GenScript, L00205)

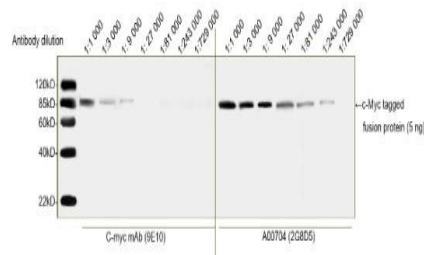
with 0.9 µg of the antibody added to diluted WB solution (dilute 1.5 ml of WB with 1.5 ml of PBST)

20 µg Multiple Tag Cell Lysate (M0100) was used for the IP using THE™ Anti-c-Myc-tag Monoclonal Antibody (Mouse) (GenScript, A00704) and half of the IP was loaded on the gel.

The Western blot was performed by One-Step IP-Western Kit (Mouse) (L00232)

Immunofluorescence analysis of 293 cells transfected with c-Myc tag protein using

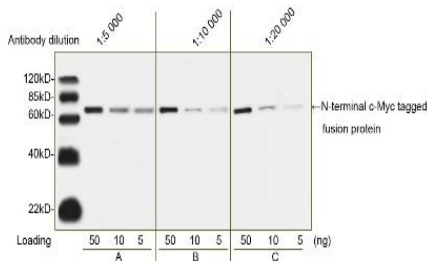
THE™ Anti-c-Myc-tag Monoclonal Antibody (Mouse) (GenScript, A00704)



Western blot discovers working concentration comparison of **THE™ c-Myc Tag Antibody, mAb, Mouse (Cat.No. A00704)** with Mouse Anti-c-Myc mAb (9E10), showing GenScript A00704 posses excellent performance in WB assay with surprising antibody dilution.

Both c-Myc antibodies starting dilution are from 1:1 000 (equivalent to 1.0 µg/ml) in assay.

The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG.



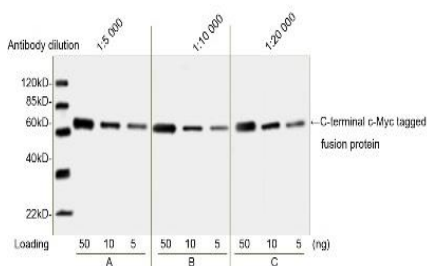
Sensitivity analysis of **THE™ c-Myc Tag Antibody, mAb, Mouse (Cat.No. A00704)** with series of loading amounts and antibody concentration.

A: 0.2 µg/ml c-Myc Tag Antibody (equivalent to 1:5 000 diluted from 1.0 mg/ml)

B: 0.1 µg/ml c-Myc Tag Antibody (equivalent to 1:10 000 diluted from 1.0 mg/ml)

C: 0.05 µg/ml c-Myc Tag Antibody (equivalent to 1:20 000 diluted from 1.0 mg/ml)

The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG



Sensitivity analysis of **THE™ c-Myc Tag Antibody, mAb, Mouse (Cat.No. A00704)** with series of loading amounts and antibody concentration.

A: 0.2 µg/ml c-Myc Tag Antibody (equivalent to 1:5 000 diluted from 1.0 mg/ml)

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C: 0.05 µg/ml c-Myc Tag Antibody (equivalent to 1:20 000 diluted from 1.0 mg/ml)

The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG