**DATASHEET**
Version: 2016-08-17

# THE™ DYKDDDDK Tag Antibody, mAb, Mouse

**Cat. No.:** A00187-100

**Size:** 100 µg

**Synonyms:** Mouse anti DYKDDDDK-tag mAb; Mouse anti flag-tag mAb;

## Description:

The DYKDDDDK peptide is a small component of the epitope which does not appear to interfere with the bioactivity or the biodistribution of the recombinant protein. It has been used extensively as a general epitope tag in expression vectors. THE™ DYKDDDDK Tag Antibody, mAb, Mouse is a high-affinity monoclonal antibody that can be used to detect DYKDDDDK-tagged proteins.

**Immunogen:** A synthetic peptide (DYKDDDDK) 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:** 5A8E5

**Ig Subclass:** IgG2b, k

**Specificity: THE™ DYKDDDDK Tag Antibody, mAb,**

**Mouse** recognizes C-terminal, N-terminal and internal 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.

**ELISA:** 0.05-0.2 µg/ml

**Western blot:** 0.1-1.0 µg/ml

**Immunoprecipitation:** 1 µg/ml

**Immunofluorescent staining:** 1 µg/ml

**Flow cytometry:** 1 µg/ml

**Other applications:** user-optimized

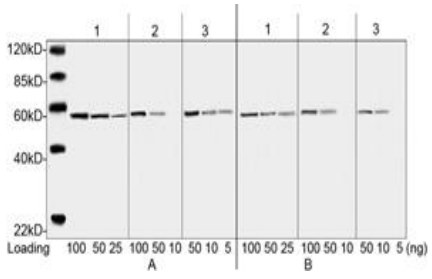
## Reconstitution:

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

## Storage:

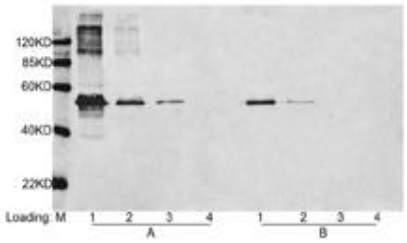
The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

## Example

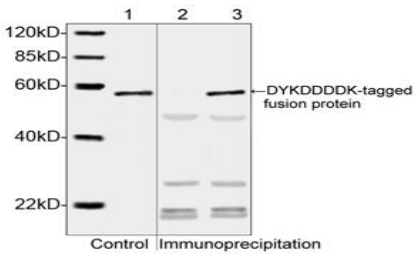



Comparison of THETM DYKDDDDK Tag Antibody, mAb, Mouse (A: GenScript, A00187, 1 µg/ml) with Mouse Anti- DYKDDDDK Tag mAb (B: Company S, clone M2, 1 µg/ml) by Western blot.
Lane 1 N-terminal DYKDDDDK-tagged fusion protein
Lane 2 Internal DYKDDDDK-tagged fusion protein
Lane 3 C-terminal DYKDDDDK-tagged fusion protein
Predicted Size:
N-terminal DYKDDDDK-tagged fusion protein 52 kD
Internal DYKDDDDK-tagged fusion protein 55 kD
C-terminal DYKDDDDK-tagged fusion protein 55 kD
Observed Size:
N-terminal DYKDDDDK-tagged fusion protein 52 kD

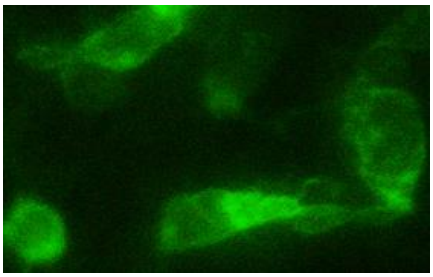
Internal DYKDDDDK-tagged fusion protein 55 kD
C-terminal DYKDDDDK-tagged fusion protein 55 kD
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Mouse IgG.



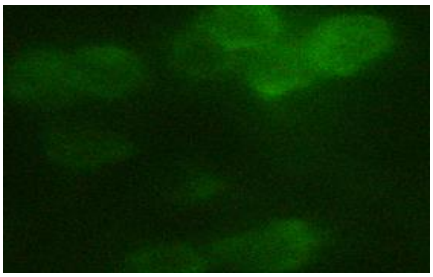

Loading:
Lane 1-3 Multiple Tag (Purified) (GenScript, Cat.No.M0101, 400 ng, 80 ng,16 ng)
Lane 4. 293 cell lysate 10 µl
Primary antibody:
A. 1 µg/ml THE™ Mouse Anti-DYKDDDDK-tag Monoclonal Antibody (GenScript, Cat. No. A00187, Lot No. A213902)
B. 1 µg/ml Mouse Anti-DYKDDDDK-tag Monoclonal Antibody (Company S, clone M2)
Secondary antibody:
IRDye™800 Conjugated affinity Purified Goat Anti-Mouse IgG (ROCKLAND, 1:10,000,610-132-121)



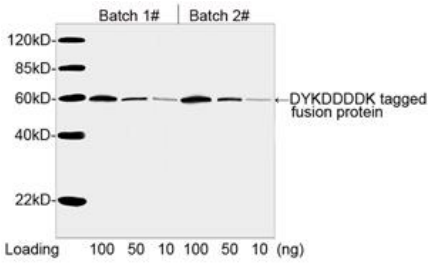

Western blot analysis of *E.coli* lysate containing DYKDDDDK-tagged fusion protein and its immunoprecipitates.
1: *E.coli* lysate containing DYKDDDDK-tagged fusion protein
2: Immunoprecipitates of free *E.coli* lysate incubated with DYKDDDDK Tag Antibody, mAb, Mouse (GenScript, A00187, 2 µg/ml) and Protein A.
3: Immunoprecipitates of *E.coli* lysate containing DYKDDDDK-tagged fusion protein incubated with DYKDDDDK Tag Antibody, mAb, Mouse (GenScript, A00187, 2 µg/ml) and Protein A.



293 cells transfected with C-terminal DYKDDDDK tag protein
Primary antibody: 1 µg/ml THE™ Anti-DYKDDDDK-tag Monoclonal Antibody (Mouse) (GenScript, A00187)
Secondary antibody: 2 µg/ml Fluorescein Conjugated Affinity Purified Anti-Mouse IgG (Rockland, 610-102-121)



293 cells transfected with N-terminal DYKDDDDK tag protein
Primary antibody: 1 µg/ml THE™ Anti-DYKDDDDK-tag Monoclonal Antibody (Mouse) (GenScript, A00187)
Secondary antibody: 2 µg/ml Fluorescein Conjugated Affinity Purified Anti-Mouse IgG (Rockland, 610-102-121)




Consistency analysis of Batch 1# and 2# of THE™ DYKDDDDK Tag Antibody, mAb, Mouse (GenScript, A00187, 1 µg/ml) by Western blot, showing that signal remains consistent from Lot to Lot.
The assay was performed with DYKDDDDK-tagged fusion protein.
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Mouse IgG.