

Rev03
Update: Dec,14,2021

DATASHEET

THE™ DYKDDDDK Tag Antibody, mAb, Mouse

Cat. No.: A00187

Overview

Specificity	THE™ DYKDDDDK Tag Antibody, mAb, Mouse recognizes C-terminal, N-terminal and internal tagged fusion proteins.
Host Species	Mouse
Immunogen	A synthetic peptide (DYKDDDDK) coupled 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.

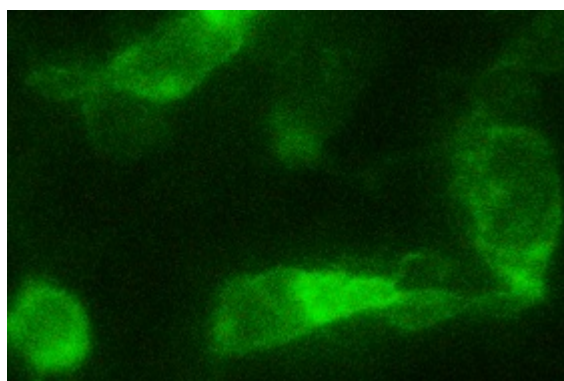
Application	Recommended Usage
ELISA	0.05-0.2 µg/ml
Western Blot	0.1-1.0 µg/ml
Immunoprecipitation	1 µg/ml
Immunofluorescent staining	1 µg/ml
Flow cytometry	1 µg/ml
Other applications	User-optimized

Properties

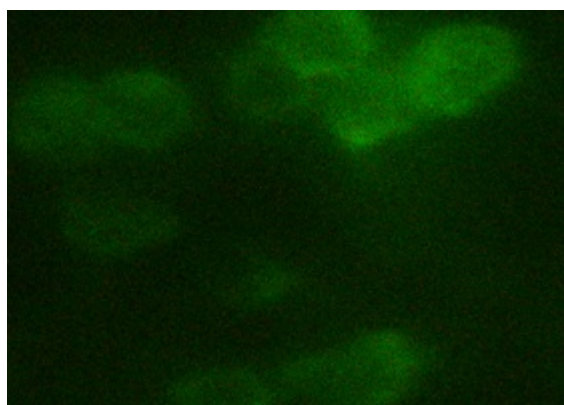
Form	Lyophilized
Storage Buffer	Lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/ml.

Storage Instructions	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.
Purification	Protein A affinity column
Isotype	Mouse IgG2b, κ
Clonality	Monoclonal
Clone Id	5A8E5
Note	GenScript can offer this product per customer's request including product size, buffer components, etc.

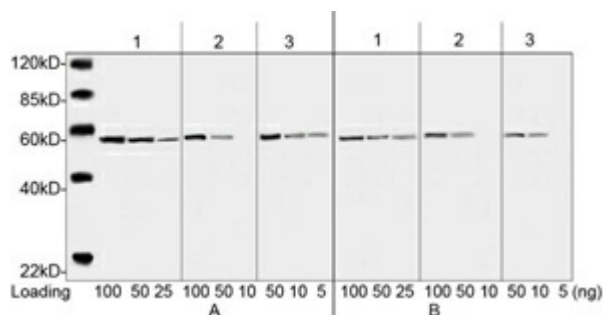
Examples



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



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



Comparison of THE™ DYKDDDDK Tag Antibody, mAb, Mouse (A: GenScript, A00187, 1 μ g/ml) with Mouse Anti-DYKDDDDK Tag mAb (B: Company S, clone M2, 1 μ g/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

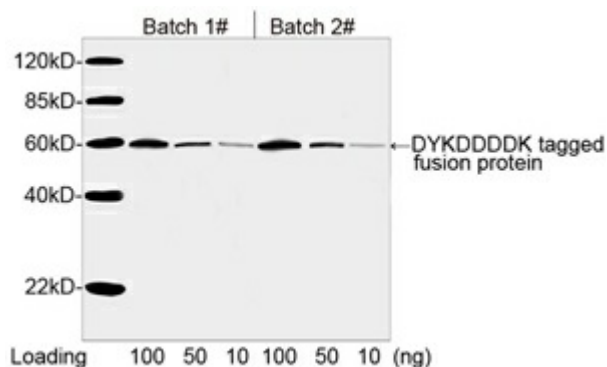
Observed Size:

N-terminal DYKDDDDK-tagged fusion protein 52 kD

Internal DYKDDDDK-tagged fusion protein 55 kD

C-terminal DYKDDDDK-tagged fusion protein 55 kD

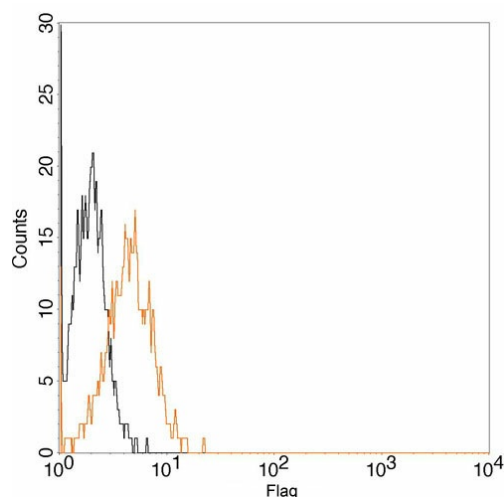
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Mouse IgG.



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.

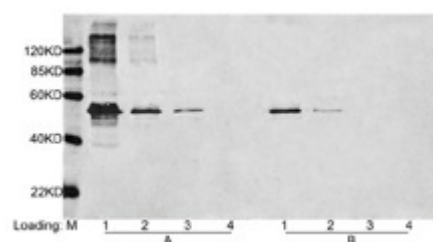
The assay was performed with DYKDDDDK-tagged fusion protein.

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



Flow cytometric analysis of non-transfected or Flag fusion gene transfected CHO cells using

THE™ DYKDDDDK Tag Antibody, mAb, Mouse (GenScript, A00187) (black and yellow respectively). The signal was developed with FITC 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

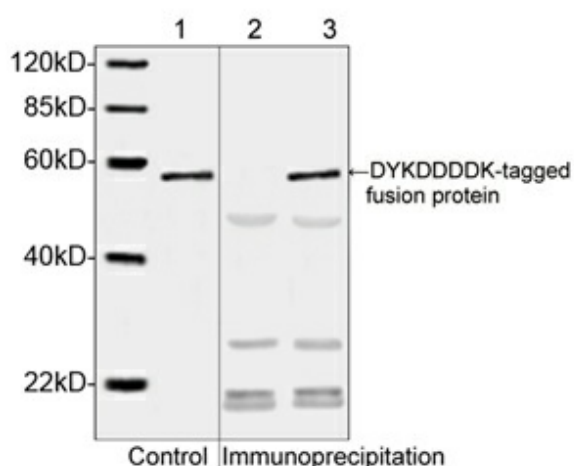
Primary antibody:

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)



Background

Target Background : 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.

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

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