

Rev06
Update: Nov,03,2023

DATASHEET

THE™ V5 Tag Antibody, mAb, Mouse

Cat. No.: A01724

Overview

Specificity	THE™ V5 Tag Antibody, mAb, Mouse recognizes C-terminal, N-terminal, and internal V5 tagged fusion proteins.
Host Species	Mouse
Immunogen	V5 tag 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.

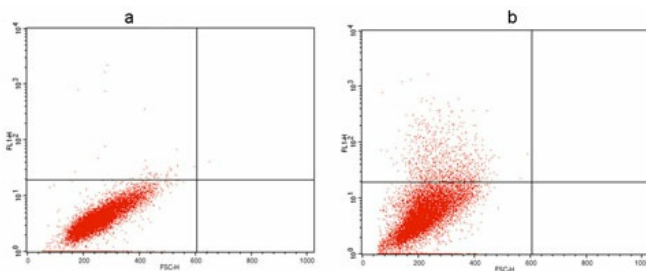
Application	Recommended Usage
ELISA	0.05-0.1 µg/ml
Western Blot	0.2-1 µg/ml
Immunoprecipitation (IP)	1-5 µg/ml
Flow Cytometry	1-3 µg for 1×10^6 cells
Immunocytochemistry/Immunofluorescence (ICC/IF)	1-3 µg/ml

Properties

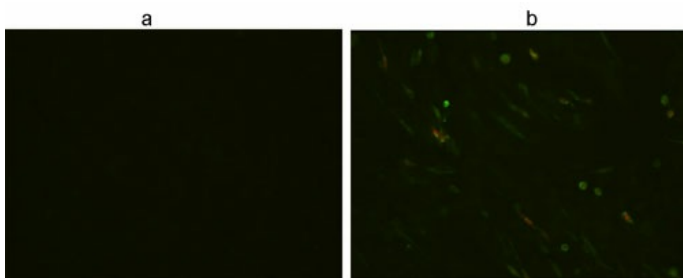
Form	Lyophilized
Storage Buffer	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
Reconstitution	Reconstitute the lyophilized powder with deionized water (or equivalent) to a final concentration of 0.5 mg/mL.

Storage Instructions	The lyophilized product remains stable for up to 1 year at -20 °C from the date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.
Purification	Protein A affinity column
Isotype	Mouse IgG2a,k
Clonality	Monoclonal
Clone ID	4C12E11

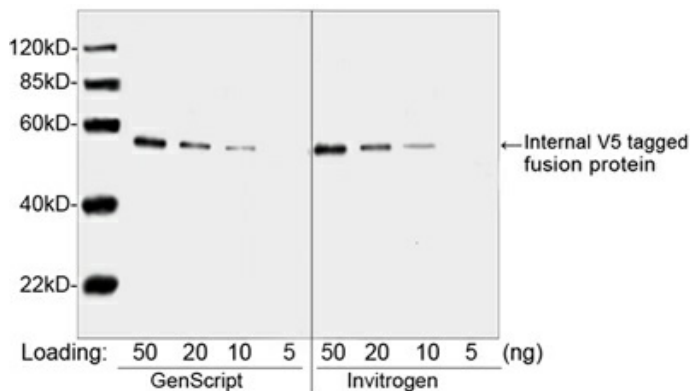
Examples



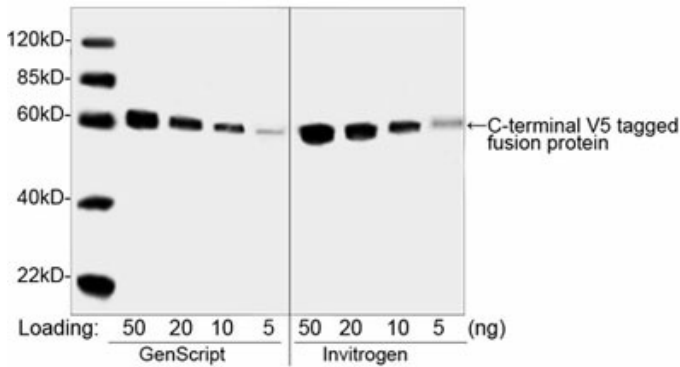
Flow cytometric analysis of non-transfected CHO cells (a) and V5 fusion gene transfected CHO cells (b) using THE™ V5 Antibody, mAb, Mouse (GenScript, A01724). The signal was developed with FITC conjugated Goat Anti-Mouse IgG.



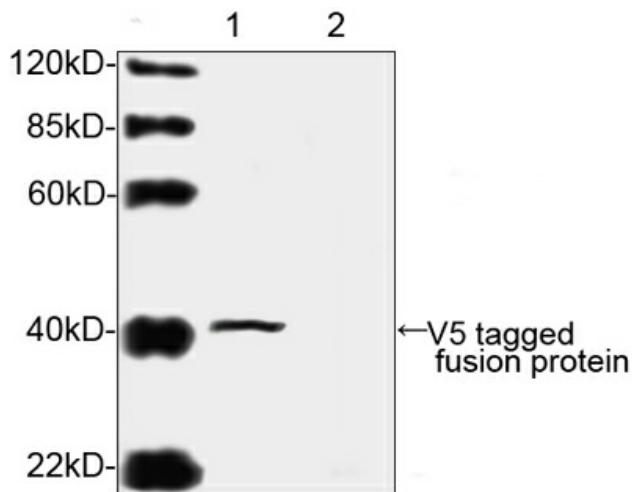
Immunocytochemistry/Immunofluorescence analysis of non-transfected CHO cells (a) and V5 fusion gene transfected CHO cells (b) using THE™ V5 Antibody, mAb, Mouse (GenScript, A01724). The signal was developed with FITC conjugated Goat Anti-Mouse IgG.



Sensitivity comparison of purified internal V5 tagged fusion proteins with V5 Tag Antibody, mAb, Mouse from GenScript, (A01724, 0.2 µg/ml) and Invitrogen (R960-25, 0.2 µg/ml) by Western blot. The signal was developed with IRDye™800 Conjugated affinity Purified Goat Anti-Mouse IgG. The assay was performed with internal V5 tagged fusion protein.



Sensitivity comparison of purified internal V5 tagged fusion proteins with V5 Tag Antibody, mAb, Mouse from GenScript, (A01724, 0.2 µg/ml) and Invitrogen (R960-25, 0.2 µg/ml) by Western blot. The signal was developed with IRDye™800 Conjugated affinity Purified Goat Anti-Mouse IgG

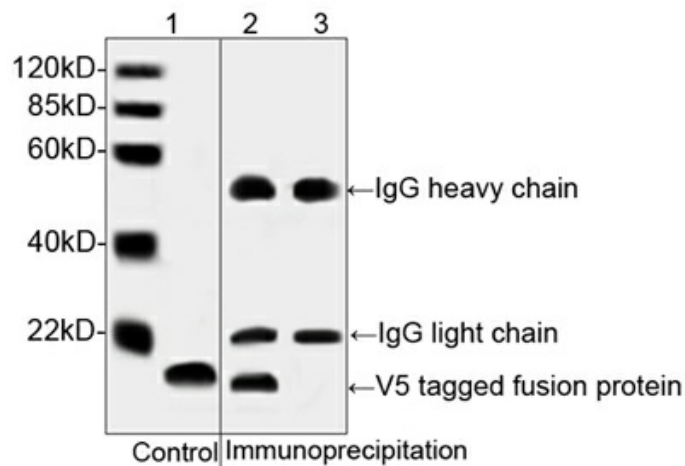


Superior specificity assay of transfected cell lysates using Western blot with THE™ V5 Antibody, mAb, Mouse (GenScript, A01724).

Lane 1: V5-tagged protein transfected CHO cell lysate.

Lane 2: Non-transfected CHO cell lysate.

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

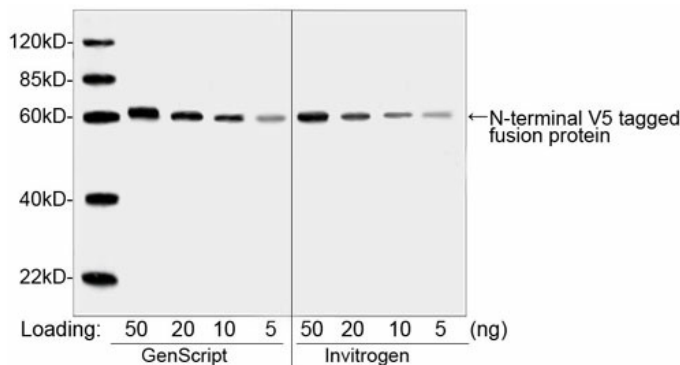


Western blot analysis of immunoprecipitates from V5-tagged protein transfected HEK293 cell lysates using THE™ V5 Antibody, mAb, Mouse (A01724, 1 µg/ml).

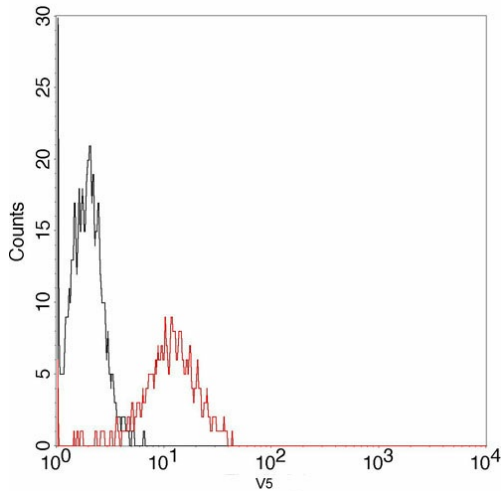
Lane 1: V5-tagged protein transfected HEK293 cell lysate as control.

Lane 2-3: Immunoprecipitates of V5-tagged protein transfected and non-transfected HEK293 cell lysate with V5 Antibody, mAb, Mouse.

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



Comparison sensitivity of purified N-terminal V5 tagged fusion proteins with V5 Tag Antibody, mAb, Mouse from GenScript (A01724, 0.2 µg/ml) and Invitrogen (R960-25, 0.2 µg/ml) by Western blot. The signal was developed with IRDye™ 800 Conjugated affinity Purified Goat Anti-Mouse IgG



Flow cytometric analysis of non-transfected or V5 fusion gene transfected CHO cells using THE™ V5 Tag Antibody, mAb, Mouse (GenScript, A01724) (black and red respectively). The signal was developed with FITC conjugated Goat Anti-Mouse IgG.

Background

Target Background : The V5 epitope tag (GKPIPPELLGLDST) is derived from a small epitope which presents on the P and V proteins of the paramyxovirus of simian virus 5 (SV5). V5 Tag Antibody is a useful tool in detection of recombinant proteins containing the V5 epitope. THE™ V5 Tag Antibody, mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with V5 tag peptide conjugated to KLH.

Synonyms : THE™ V5 Tag Antibody, mAb, Mouse;

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

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