

# Rabbit anti V5-Tag mAb

Catalog No.: AE089

3 Publications

## Basic Information

### Observed MW

48 kDa, 27 kDa

### Calculated MW

### Category

Tag antibody

### Applications

WB, IF/ICC, ELISA, ChIP

### Cross-Reactivity

Species independent

### CloneNo number

ARC50445

## Background

Protein tags are peptide sequences genetically grafted onto a recombinant protein. Often these tags are removable by chemical agents or by enzymatic means, such as proteolysis or intein splicing. Tags are attached to proteins for various purposes. Epitope tags are short peptide sequences which are chosen because high-affinity antibodies can be reliably produced in many different species. These are usually derived from viral genes, which explain their high immunoreactivity. Epitope tags include V5-tag, Myc-tag, HA-tag and NE-tag. These tags are particularly useful for western blotting, immunofluorescence and immunoprecipitation experiments, although they also find use in antibody purification.

## Recommended Dilutions

**WB** 1:2000 - 1:10000

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**ChIP** 5µg antibody for 10µg-15µg of Chromatin

## Immunogen Information

### Gene ID

### Swiss Prot

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

V5;V5 tag;V5-tag

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

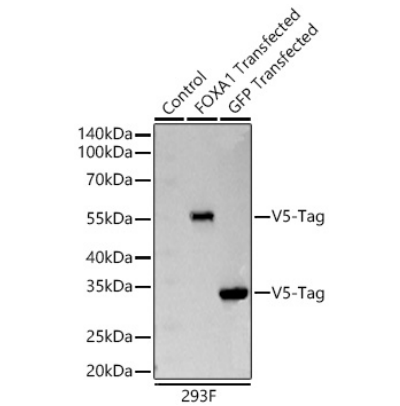
Affinity purification

### Storage

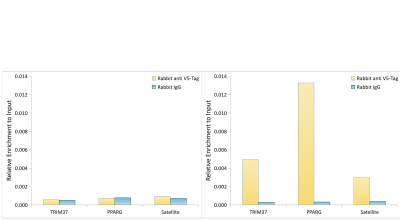
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

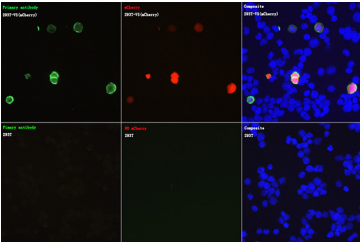
Validation Data



Western blot analysis of lysates from wild type (WT) 293F cells, 293F cells transfected with FOXA1-V5-Tag and 293F cells transfected with GFP-V5-Tag using Rabbit anti V5-Tag mAb (AE089) at 1:11000 dilution incubated at room temperature for 1.5 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 20 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10 s.



Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from 293F cells (left) and 293F cells transfected with a GATA3 expression vector containing a single C-terminal V5-Tag (right), using 5 µg of Rabbit anti V5-Tag mAb (AE089) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Immunofluorescence analysis of 293T cells transfected with V5(mCherry) protein and untreated 293T cells using Rabbit anti V5-Tag mAb (AE089) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.