

# Puromycin Rabbit mAb

Catalog No.: A23031

Recombinant

9 Publications

## Basic Information

### Observed MW

10-100 kDa

### Calculated MW

### Category

Primary antibody

### Applications

WB,IP,IF/ICC,IHC-P,FC (intra),ELISA

### Cross-Reactivity

Species independent

### CloneNo number

ARC58626

## Background

Puromycin is an aminonucleoside antibiotic, derived from the *Streptomyces alboniger* bacterium, that causes premature chain termination during translation taking place in the ribosome. It has a role as a nucleoside antibiotic, an antiinfective agent, an antineoplastic agent, a protein synthesis inhibitor, an antimicrobial agent, an EC 3.4.11.14 (cytosol alanyl aminopeptidase) inhibitor and an EC 3.4.14.2 (dipeptidyl-peptidase II) inhibitor. It is a conjugate base of a puromycin(1+). Puromycin is an antibiotic that prevents bacterial protein translation. It is utilized as a selective agent in laboratory cell cultures. Puromycin is toxic to both prokaryotic and eukaryotic cells, resulting in significant cell death at appropriate doses.

## Recommended Dilutions

**WB** 1:2000 - 1:12000

**IP** 0.5 µg - 4 µg antibody for  
200 µg - 400 µg extracts  
of whole cells

**IF/ICC** 1:1000 - 1:4000

**IHC-P** 1:2000 - 1:8000

**FC (intra)** 1:500 - 1:1000

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

## Immunogen Information

### Gene ID

CAS:58-58-2

### Swiss Prot

### Immunogen

Chemical compounds corresponding to Puromycin.

### Synonyms

## 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.

## Contact

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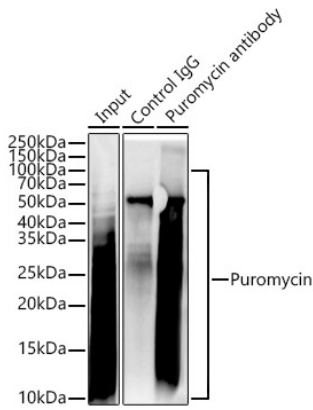
 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

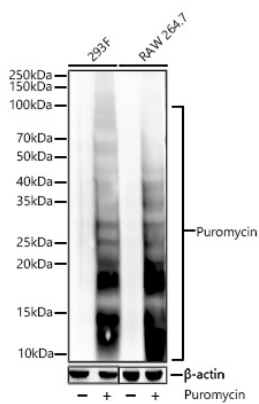
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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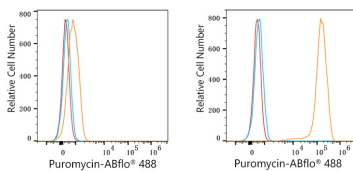
## Validation Data



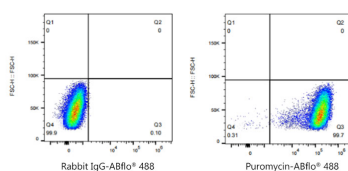
Immunoprecipitation analysis of 300ug extracts of 293T+puromycin cells using 3ug puromycin antibody (A23031). Western blot was performed from the immunoprecipitate using puromycin antibody (A23031) at a dilution of 1:5000.



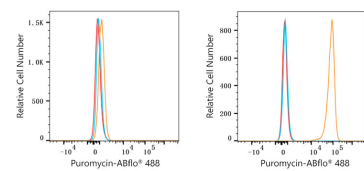
Western blot analysis of various lysates using Puromycin Rabbit mAb (A23031) at 1:8000 dilution incubated overnight at 4°C. 293F and Raw 264.7 cells were treated with puromycin (20 µg/mL) at 37°C for 4 hours.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 30 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 60s.



Flow cytometry:  $1 \times 10^6$  293T cells (negative control, left) and 293T cells (treated with puromycin, right) were intracellularly-stained with puromycin Rabbit mAb (A23031, 2 µg/mL, orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 2 µg/mL, blue line). Non-fluorescently stained cells were used as blank control (red line).

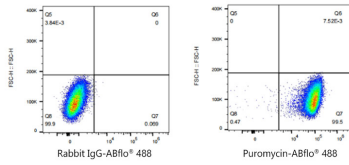


Flow cytometry:  $1 \times 10^6$  293T cells (treated with puromycin) cells were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 2 µg/mL, left) or puromycin Rabbit mAb (A23031, 2 µg/mL, right).

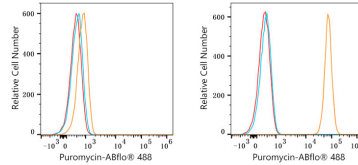


Flow cytometry:  $1 \times 10^6$  Raw264.7 cells (negative control, left) and Raw264.7 cells (treated with puromycin, right) were intracellularly-stained with puromycin Rabbit mAb (A23031, 2 µg/mL, orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 2 µg/mL, blue line). Non-fluorescently stained cells were used as blank control (red line).

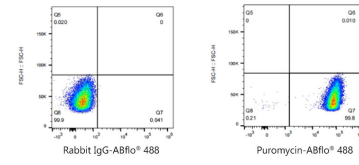
## Validation Data



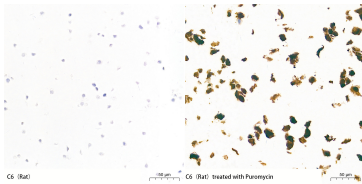
Flow cytometry:  $1 \times 10^6$  Raw264.7 cells (treated with puromycin) were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 2  $\mu\text{g}/\text{mL}$ , left) or puromycin Rabbit mAb (A23031, 2  $\mu\text{g}/\text{mL}$ , right).



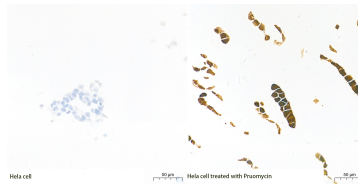
Flow cytometry:  $1 \times 10^6$  C6 cells (negative control, left) and C6 cells (treated with puromycin, right) were intracellularly-stained with puromycin Rabbit mAb (A23031, 2  $\mu\text{g}/\text{mL}$ , orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 2  $\mu\text{g}/\text{mL}$ , blue line). Non-fluorescently stained cells were used as blank control (red line).



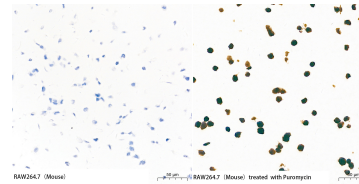
Flow cytometry:  $1 \times 10^6$  C6 cells (treated with puromycin) were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 2  $\mu\text{g}/\text{mL}$ , left) or puromycin Rabbit mAb (A23031, 2  $\mu\text{g}/\text{mL}$ , right).



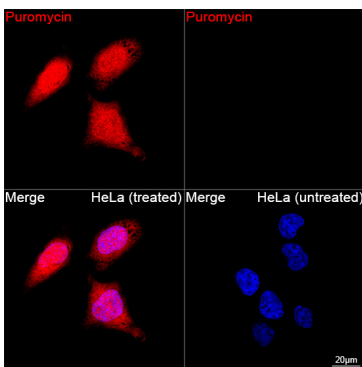
Immunohistochemistry analysis of paraffin-embedded C6 and C6-puromycin cells using Puromycin Rabbit mAb (A23031) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



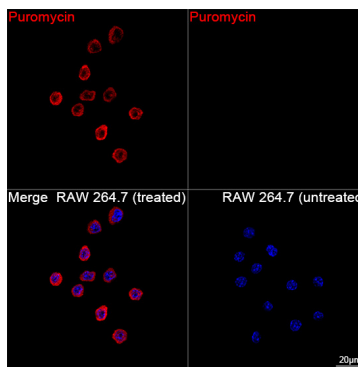
Immunohistochemistry analysis of paraffin-embedded HeLa and HeLa-puromycin cells using Puromycin Rabbit mAb (A23031) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



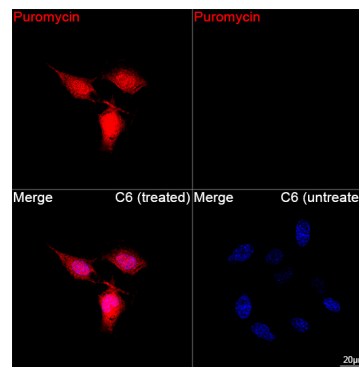
Immunohistochemistry analysis of paraffin-embedded RAW264.7 and RAW264.7-puromycin cells using Puromycin Rabbit mAb (A23031) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of HeLa cells (treated with Puromycin) and HeLa cells (untreated) using Puromycin Rabbit mAb (A23031, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of RAW 264.7 cells (treated with Puromycin) and RAW 264.7 cells (untreated) using Puromycin Rabbit mAb (A23031, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells (treated with Puromycin) and C6 cells (untreated) using Puromycin Rabbit mAb (A23031, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.