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Puromycin Rabbit mAb

Catalog No.: A23031 Recombinant 2 Publications

Basic Information

Observed MW
10-100kDa

Calculated MW

Category
Primary antibody

Applications
WB,IHC-P,IF/ICC,IP,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
IHC-P	1:2000 - 1:8000
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
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℃. 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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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℃. 293F and Raw 264.7 cells were treated with puromycin (20 μg/mL) at 37℃ 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:1X10^6 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 was used as blank control (red line).

Flow cytometry:1X10^6 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:1X10^6 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 was used as blank control (red line).

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Validation Data

Flow cytometry:1X10^6 Raw264.7 cells(treated with puromycin) 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:1X10^6 C6 cells (negative control,left) and C6 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 was used as blank control (red line).

Flow cytometry:1X10^6 C6 cells(treated with puromycin) were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069,2 µg/mL,left) or puromycin Rabbit mAb(A23031,2 µg/mL,right).

Immunofluorescence analysis of HeLa cells (treated with puromycin) and HeLa cells (untreated) using puromycin Rabbit mAb (A23031) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of RAW 264.7 cells (treated with puromycin) and RAW 264.7 cells (untreated) using puromycin Rabbit mAb (A23031) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

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.