

Puromycin Rabbit pAb

Catalog NO.: A21205 **6 Publications**

Basic Information

Observed MW

10-250kDa

Calculated MW

Category

Polyclonal Antibodies

Applications

WB, IP, IF/ICC, IHC-P, ELISA

Cross-Reactivity

Species independent

Conjugation

Unconjugated

Background

Puromycin is a tyrosyl-tRNA mimic that blocks translation by labeling and releasing elongating polypeptide chains from translating ribosomes. Puromycin has been used in molecular biology research for decades as a translation inhibitor. More recently, in vivo puromycylation assays have become popular tools for localizing translating ribosomes in cells. These assays often use elongation inhibitors to purportedly inhibit the release of puromycin-labeled nascent peptides from ribosomes.

Recommended Dilutions

WB 1:1000 - 1:5000

IP
0.5 µg - 4 µg antibody for 400 µg - 600 µg extracts of whole cells

IF/ICC 1:200 - 1:800
IHC-P 1:3000 - 1:12000

ELISA

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

Contact

Immunogen Information

Gene ID

CAS:58-58-2

Swiss Prot

Immunogen

Chemical compounds corresponding to Puromycin.

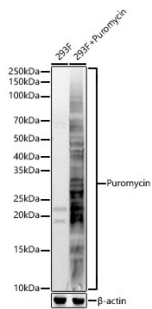
Synonyms

Product Information

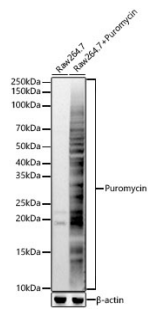
☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source	Isotype	Purification
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C. Avoid freeze / thaw cycles.		
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.		

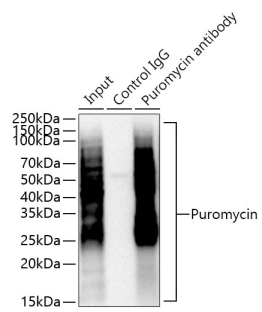
Validation Data



Western blot analysis of lysates from 293F cells, using Puromycin Rabbit pAb (A21205) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

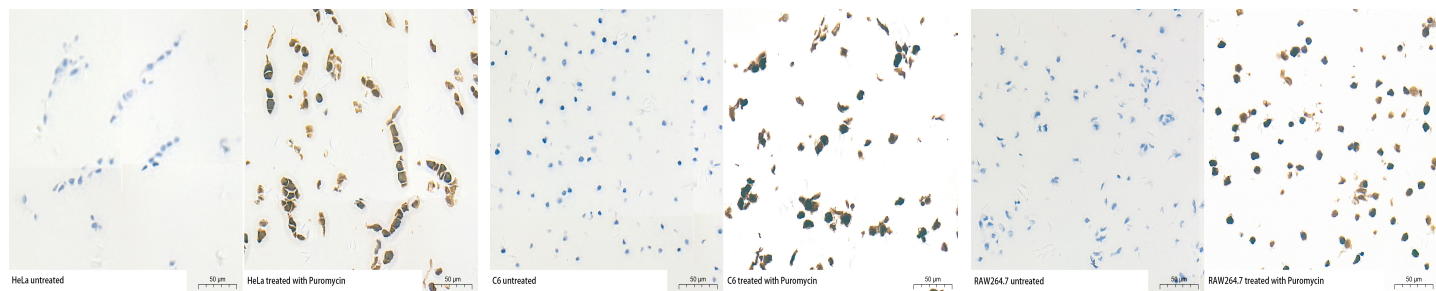


Western blot analysis of lysates from RAW264.7 cells, using Puromycin Rabbit pAb (A21205) at 1:2000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunoprecipitation of Puromycin from 600 μ g extracts of 293T cells treated with puromycin (20 μ g/mL, 4 h) was performed using 2 μ g of Puromycin Rabbit pAb (A21205). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Puromycin Rabbit pAb (A21205) at a dilution of 1:3000.

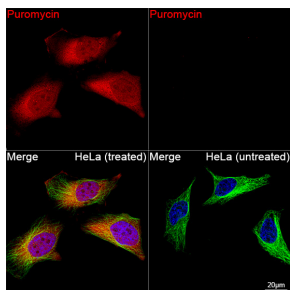
Validation Data



Immunohistochemistry analysis of paraffin-embedded HeLa cells untreated (left) and Puromycin-treated (right), using Puromycin Rabbit pAb (A21205) at a dilution of 1:5000 (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 C6 cells untreated (left) and Puromycin-treated (right), using Puromycin Rabbit pAb (A21205) at a dilution of 1:5000 (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 RAW 264.7 cells untreated (left) and Puromycin-treated (right), using Puromycin Rabbit pAb (A21205) at a dilution of 1:5000 (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 pAb (A21205, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

