Puromycin Rabbit pAb

Catalog NO.: A21205SP **4 Publications**

Basic Information

Observed MW
10 kDa or above

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 1:2000 - 1:15000

IP
0.5 μg - 4 μg antibody for 200 μg - 600 μg extracts of whole cells

IF/ICC 1:100-1:400

IHC-P 1:200 - 1:800

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (⩾1:10000)

Immunogen Information

Gene ID
CAS:58-58-2

Swiss Prot

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Contact

Product Information

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

Source
Rabbit

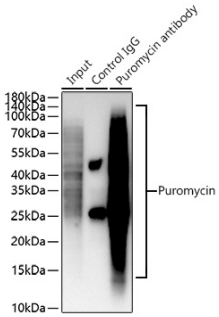
Isotype
IgG

Purification
Affinity purification

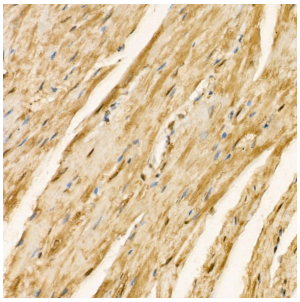
Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

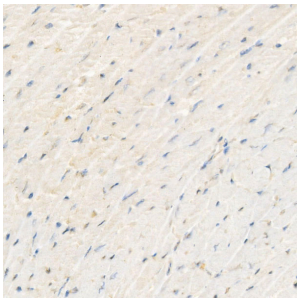
Validation Data

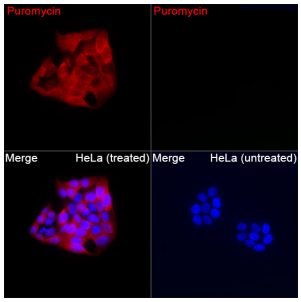
Western blot analysis of lysates from 293F cells using Puromycin Rabbit pAb (A21205SP) at 1:10000 dilution incubated overnight at 4°C. 293F cells were treated with puromycin (20 µg/mL) at 37°C for 4 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Immunoprecipitation of Puromycin from 600 µg extracts of 293T cells treated with puromycin(20 µg/mL, 4 h) was performed using 2 µg of Puromycin Rabbit pAb (A21205SP). 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 (A21205SP) at a dilution of 1:1000.







Immunohistochemistry analysis of paraffin-embedded Mouse heart tissue treated with Puromycin using Puromycin Rabbit pAb (A21205SP) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

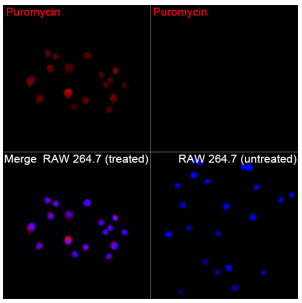
Immunohistochemistry analysis of paraffin-embedded Mouse heart tissue using Puromycin Rabbit pAb (A21205SP) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunofluorescence analysis of HeLa cells (treated with Puromycin) and HeLa cells (untreated) using Puromycin Rabbit pAb (A21205SP) at a 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.

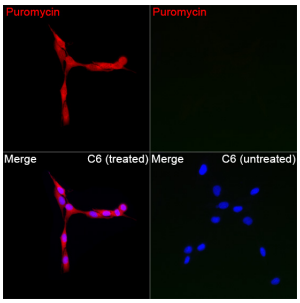
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Please visit **https://abclonal.com** for a complete list of recommended products.

Validation Data



Immunofluorescence analysis of RAW 264.7 cells (treated with Puromycin) and RAW 264.7 cells (untreated) using Puromycin Rabbit pAb (A21205SP) at a 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 C6 cells (treated with Puromycin) and C6 cells (untreated) using Puromycin Rabbit pAb (A21205SP) at a 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.

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