

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PNUTS in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PNUTS Pro5-Asn226 Accession # NP_002705
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Simple Western	1 µg/mL	See Below


DATA

Western Blot

Detection of Mouse and Rat PNUTS by Western Blot.
Western blot shows lysates of TS1 mouse helper T cell line and Y3-Ag rat myeloid cell line. PVDF membrane was probed with 0.1 µg/mL of Rabbit Anti-Human/Mouse/Rat PNUTS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF21581) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for PNUTS at approximately 114 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 5.

Simple Western

Detection of Human PNUTS by Simple Western™. Simple Western lane view shows lysates of HeLa human cervical epithelial carcinoma cell line, loaded at 0.2 mg/mL. Specific bands were detected for PNUTS at approximately 100-150 kDa (as indicated) using 1 µg/mL of Rabbit Anti-Human/Mouse/Rat PNUTS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF21581). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PP1 nuclear targeting subunit (PNUTS), also known as PPP1R10 and FB19, is a 99 kDa protein that binds the serine/threonine protein phosphatase PP1 and causes its localization to chromatin in the nucleus. C-terminal RGG repeats in PNUTS suggest it may bind to single stranded RNA. The PP1/PNUTS complex may also play a role in regulating the cell cycle-dependent phosphorylation of the oncogene Rb.