

For Research Use Only

# PP4R4 Polyclonal antibody, PBS Only

Catalog Number:20124-1-PBS



## Basic Information

Catalog Number:

20124-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13868

GenBank Accession Number:

BC002650

GeneID (NCBI):

57718

UNIPROT ID:

Q6NUP7

Full Name:

protein phosphatase 4, regulatory subunit 4

Calculated MW:

417 aa, 47 kDa

Observed MW:

90-100 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

PP4R4 (also known as SMEK1) is a regulatory subunit of protein phosphatase 4 (PP4), a serine/threonine phosphatase complex crucial for diverse cellular processes. It plays a key role in directing PP4's activity and substrate specificity, particularly in the DNA damage response, cell cycle progression, and centrosome maturation. Studies highlight its involvement in critical pathways such as ATM/ATR signaling for DNA repair and its regulatory function in cell division. Dysregulation of PP4R4 is implicated in genomic instability and is associated with various diseases, including cancer.

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

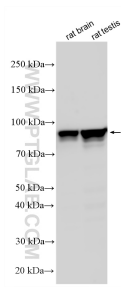
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

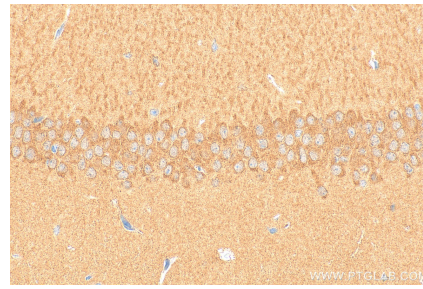
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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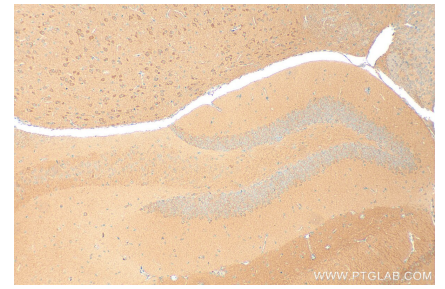
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20124-1-AP (PP4R4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 20124-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20124-1-AP (PP4R4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 20124-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20124-1-AP (PP4R4 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 20124-1-PBS in a different storage buffer formulation.