

For Research Use Only

Phospho-CDK9 (Thr186) Recombinant monoclonal antibody

Catalog Number: 87523-1-RR



Basic Information

Catalog Number:

87523-1-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001261

GeneID (NCBI):

1025

UNIPROT ID:

P50750

Full Name:

cyclin-dependent kinase 9

Calculated MW:

43 kDa

Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

252873G2

Recommended Dilutions:

WB: 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : NIH/3T3 cells,

Background Information

CDK9(Cyclin-dependent kinase 9) is a member of the Cdc2-like family of kinases. Its cyclin partners are members of the family of cyclin T (T1, T2a and T2b) and cyclin K. Phospho-CDK9 (Thr186) is the active-site-switching modification of the catalytic subunit of P-TEFb (positive transcription elongation factor b). Phosphorylation at threonine 186, located in the T-loop of CDK9, is essential for full kinase activity: it swings the T-loop away from the catalytic cleft, allowing ATP and protein substrates (e.g., the C-terminal domain of RNA polymerase II, DSIF and NELF) to enter and be efficiently phosphorylated. Thus, p-Thr186-CDK9 licenses the elongation step of most protein-coding transcripts and is indispensable for productive mRNA synthesis. (PMID: 39800748)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

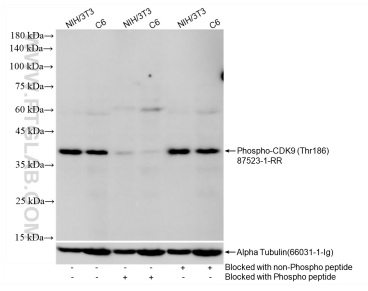
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



NIH/3T3 cell lysates and C6 cell lysates were subjected to SDS PAGE followed by western blot with 87523-1-RR (Phospho-CDK9 (Thr186) antibody) blocked with BSA only, Phospho-CDK9 (Thr186) peptide or non-Phospho peptide at dilution of 1:1000 incubated at room temperature for 1.5 hours.