For Research Use Only

Phospho-CDK9 (Thr186) Recombinant monoclonal antibody, PBS Only

Catalog Number:87523-1-PBS

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Basic Information

Catalog Number:
87523-1-PBS

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

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

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

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 -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
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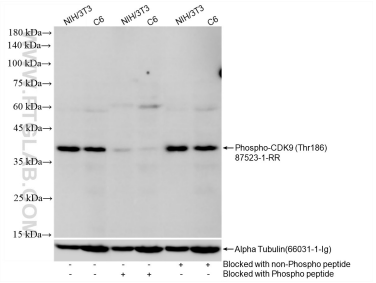
Selected Validation Data



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. This data was developed using the same antibody clone with 87523-1-PBS in a different storage buffer formulation.