

Datasheet for ABIN6971511
anti-CDK9 antibody (N-Term)



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1 Image

Overview

Quantity:	100 µL
Target:	CDK9
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK9 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This antibody was raised against a peptide within the N-terminal region of human CDK9.
Isotype:	IgG
Characteristics:	CDK9 (cyclin-dependent kinase 9) is a protein kinase involved in the regulation of transcription. Member of the cyclin-dependent kinase pair (CDK9/cyclin-T) complex, also called positive transcription elongation factor b (P-TEFb), which facilitates the transition from abortive to productive elongation by phosphorylating the CTD (C-terminal domain) of the large subunit of RNA polymerase II (RNAP II) POLR2A, SUPT5H and RDBP. This complex is inactive when in the 7SK snRNP complex form. Phosphorylates EP300, MYOD1, RPB1/POLR2A and AR, and the negative elongation factors DSIF and NELF. Regulates cytokine inducible transcription networks by facilitating promoter recognition of target transcription factors (e.g. TNF-inducible RELA/p65 activation and IL-6-inducible STAT3 signaling). Promotes RNA synthesis in genetic programs for cell growth, differentiation and viral pathogenesis. P-TEFb is also involved in

Product Details

cotranscriptional histone modification, mRNA processing and mRNA export. Modulates a complex network of chromatin modifications including histone H2B monoubiquitination (H2Bub1), H3 lysine 4 trimethylation (H3K4me3) and H3K36me3, integrates phosphorylation during transcription with chromatin modifications to control co-transcriptional histone mRNA processing. CDK9 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Western blot, it has been shown to react with Human samples.

Purification: Affinity Purified

Target Details

Target: CDK9

Alternative Name: CDK9 ([CDK9 Products](#))

Molecular Weight: 44 kDa

NCBI Accession: [NP_001252](#)

Pathways: [Cell Division Cycle](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

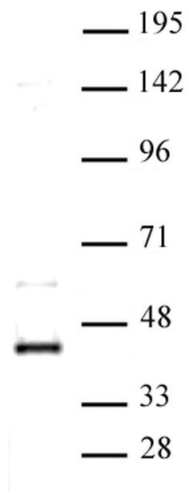
Buffer: Purified IgG in 70 mM Tris (pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30 % glycerol and 0.035 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. CDK9 antibody (pAb) tested by Western blot. Nuclear extract of HL60 cells (20 μ g) probed with CDK9 antibody (pAb) at a dilution of 1:500.