

Rabbit anti-Human Cyclin-dependent kinase 9 Polyclonal Antibody | anti-CDK9 antibody

Rabbit anti-human Cyclin-dependent kinase 9 polyclonal Antibody(CDK9)

CATALOG # AAA118487	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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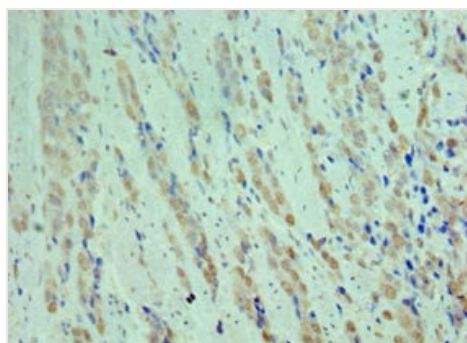
PRODUCT SYNONYMS

Cyclin-dependent kinase 9; Polyclonal Antibody; Rabbit anti-human Cyclin-dependent kinase 9 polyclonal Antibody(CDK9); C-2K; Cell division cycle 2-like protein kinase 4; Cell division protein kinase 9; Serine/threonine-protein kinase PITALRE; Tat-associated kinase complex catalytic subunit; CDK9; CDC2L4; TAK; anti-CDK9 antibody

PRODUCT SPECIFICATIONS

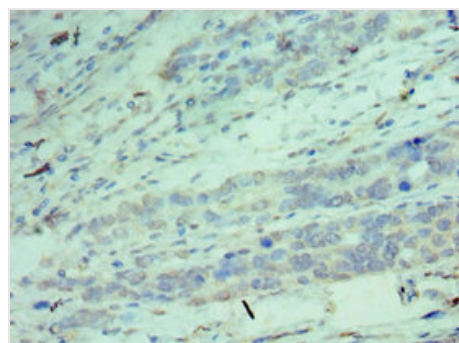
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Sequence Length	372
Applicable Applications for anti-CDK9 antibody	IHC (Immunohistochemistry), ELISA
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Conjugate	Non-conjugated
Immunogen	Recombinant human Cyclin-dependent kinase 9 protein (153-372aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-7331 / sc-484 / sc-8338
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human rectal cancer using AAA118487 at dilution 1:100



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human endometrial cancer using AAA118487 at dilution 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-CDK9 antibody	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 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. The CDK9/cyclin-K complex has also a kinase activity towards CTD of RNAP II and can substitute for CDK9/cyclin-T P-TEFb in vitro. Replication stress response protein; the CDK9/cyclin-K complex is required for genome integrity maintenance, by promoting cell cycle recovery from replication arrest and limiting single-stranded DNA amount in response to replication stress, thus reducing the breakdown of stalled replication forks and avoiding DNA damage. In addition, probable function in DNA repair of isoform 2 via interaction with KU70/XRCC6. Promotes cardiac myocyte enlargement. RPB1/POLR2A phosphorylation on 'Ser-2' in CTD activates transcription. AR phosphorylation modulates AR transcription factor promoter selectivity and cell growth. DSIF and NELF phosphorylation promotes transcription by inhibiting their negative effect. The phosphorylation of MYOD1 enhances its transcriptional activity and thus promotes muscle differentiation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502747
NCBI GeneID	1025
NCBI Accession #	NP_001252.1
NCBI GenBank Nucleotide #	NM_001261.3
UniProt Accession #	P50750; Q5JU24; Q5JU25; Q5U006; Q96TF1
Molecular Weight	53,365 Da
NCBI Official Full Name	cyclin-dependent kinase 9
NCBI Official Synonym Full Names	cyclin-dependent kinase 9
NCBI Official Symbol	CDK9
NCBI Official Synonym Symbols	TAK; C-2k; CTK1; CDC2L4; PITALRE
NCBI Protein Information	cyclin-dependent kinase 9
UniProt Protein Name	Cyclin-dependent kinase 9
UniProt Gene Name	CDK9
UniProt Synonym Gene Names	CDC2L4; TAK
UniProt Entry Name	CDK9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.