

Cdk9 Rabbit mAb

Catalog No: #49192

Package Size: #49192-1 50ul #49192-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

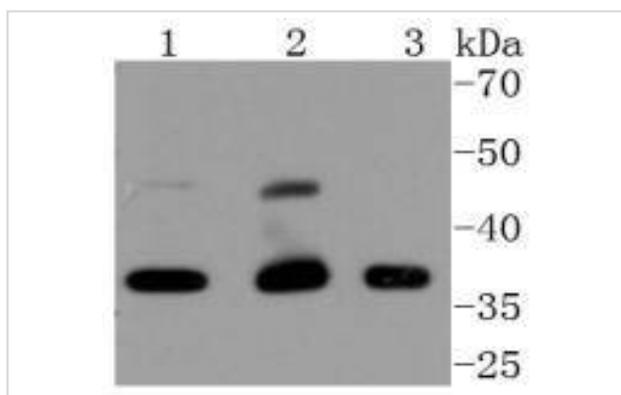
Description

Product Name	Cdk9 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD204-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	C-2K antibody CDC2 related kinase antibody CDC2L4 antibody Cdk 9 antibody Cdk9 antibody CDK9_HUMAN antibody Cell division cycle 2-like protein kinase 4 antibody Cell division protein kinase 9 antibody CTK1 antibody Cyclin dependent kinase 9 antibody Cyclin-dependent kinase 9 antibody PITALRE antibody Serine/threonine-protein kinase PITALRE antibody TAK antibody Tat associated kinase complex catalytic subunit antibody
Accession No.	Swiss-Prot#:P50750
Calculated MW	43/37 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

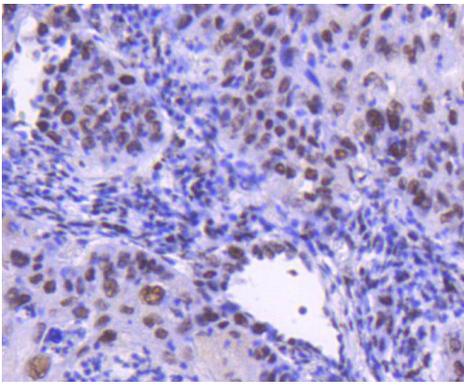
Application Details

WB: 1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200

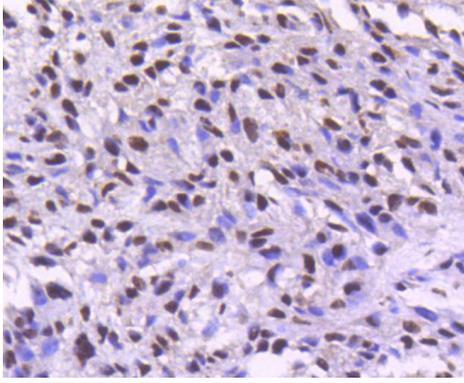
Images



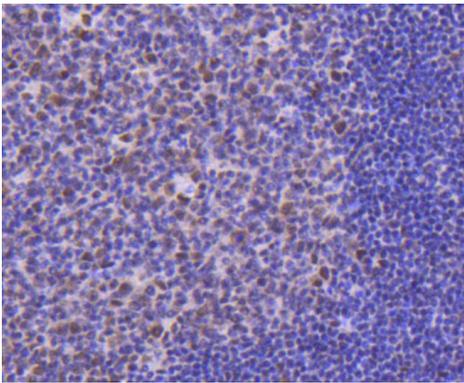
Western blot analysis of Cdk9 on different lysates using anti-Cdk9 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: Jurkat Lane 3: A431



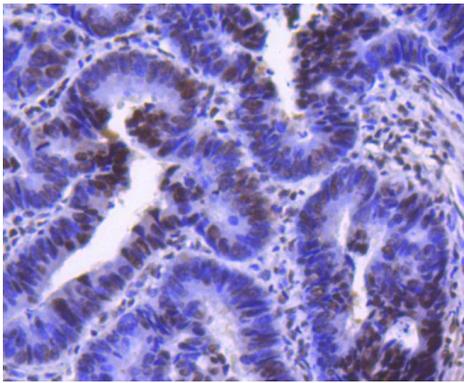
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



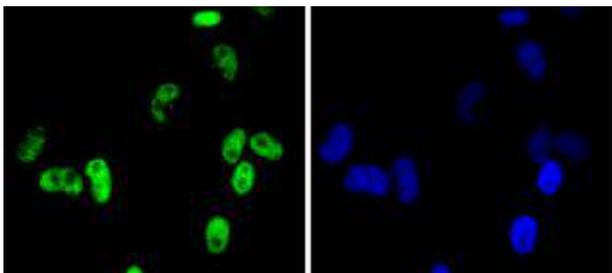
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



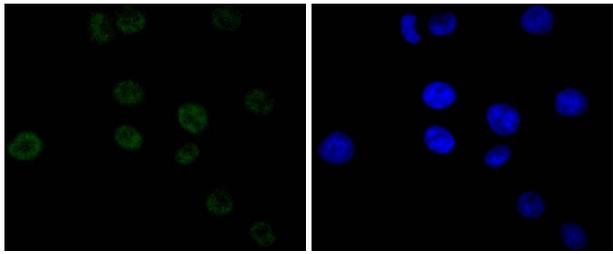
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



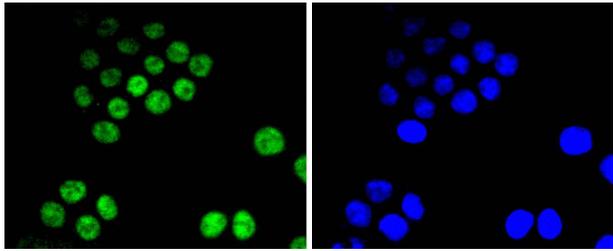
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



ICC staining Cdk9 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cdk9 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cdk9 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

A family of proteins designated cyclin dependent kinases (Cdks) are critical regulators of cell cycle progression. Cdk family members, including Cdc2 p34, Cdk1 α /C9, PISSLRE, KKIALRE, PITSLRE, and PCTAIRE 1 α /C3 are constitutively expressed throughout the cell cycle. Cdc2 p34 activity peaks during mitosis and Cdk2 activity rises in late G1 or early S phase. Cdk4 and Cdk6 are critically involved in G1 to S phase progression. The functions of Cdk3, Cdk5b, PISSLRE, KKIALRE and PCTAIRE 1 α /C3 are less well defined. Cdk9 (also designated PITALRE) has been shown to specifically phosphorylate the retinoblastoma protein. The more recently cloned Drosophila protein, P-TEFb, is thought to be the homolog of mammalian PITALRE. P-TEFb has been shown to be required for HIV Tat transcriptional activation.

References

1. Zhang H et al. SIRT2 directs the replication stress response through CDK9 deacetylation. Proc Natl Acad Sci U S A 110:13546-51 (2013).
2. Qi T et al. G-actin participates in RNA polymerase II-dependent transcription elongation by recruiting positive transcription elongation factor b (P-TEFb). J Biol Chem 286:15171-81 (2011).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.