

Cdk9 Rabbit mAb

Catalog No: #49192

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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

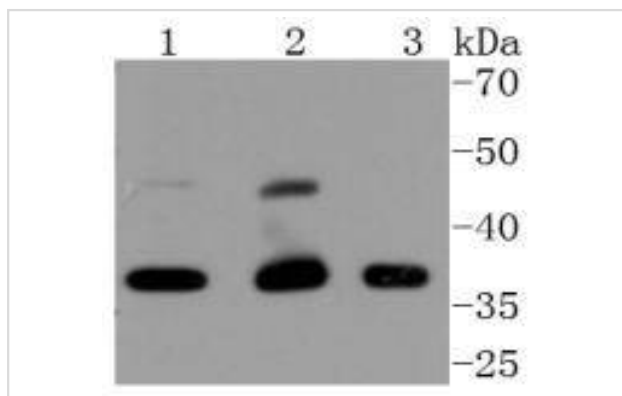
Description

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
Uniprot	P50750
GeneID	1025;
Calculated MW	43/37 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

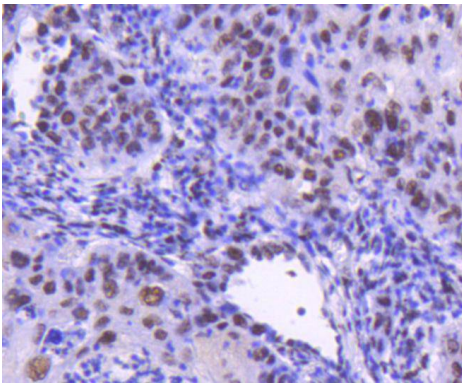
Application Details

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

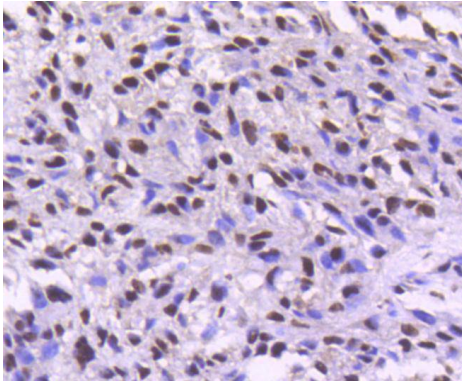
Images



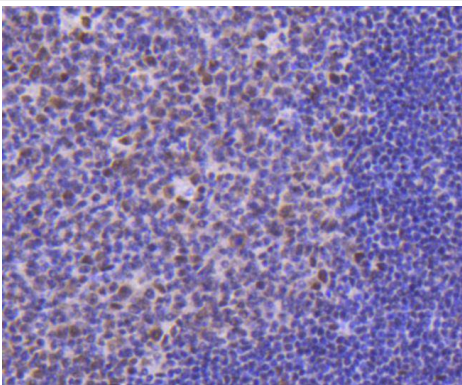
Western blot analysis of Cdk9 on different lysates using anti-Cdk9 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: Jurkat Lane 3: A431



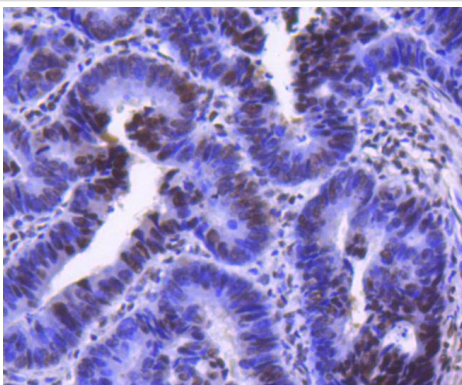
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



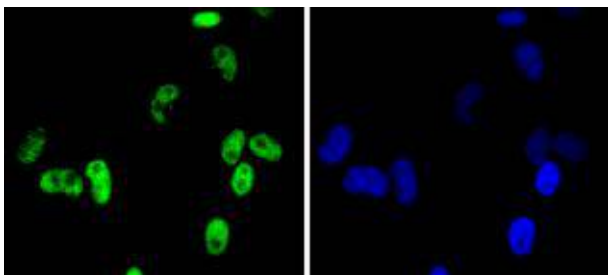
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



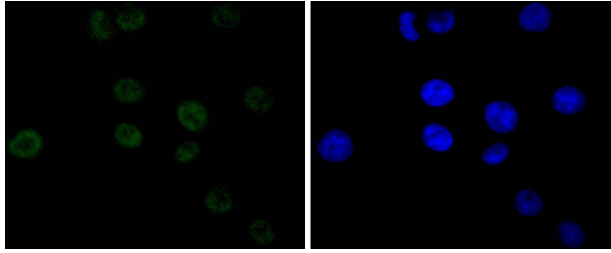
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



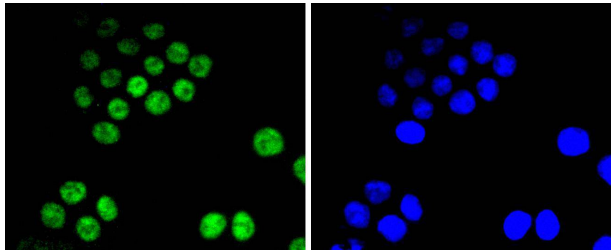
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.



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, Cdk1C9, PISSLRE, KKIALRE, PITSLRE, and PCTAIRE 1C3 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 1C3 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

Note: This product is for in vitro research use only