Data Sheet (Cat.No.TMAC-00804)

Anti-CDK9 Antibody (1M957)

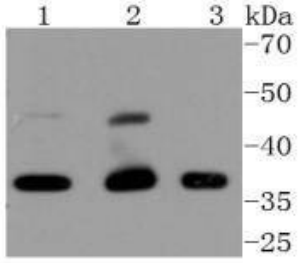
Product Details

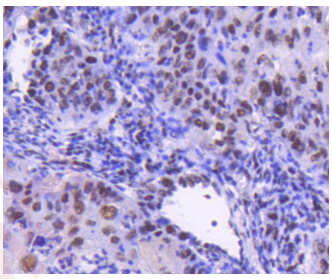
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 43/37 kDa.
Clone:	1M957
Purification:	ProA affinity purified

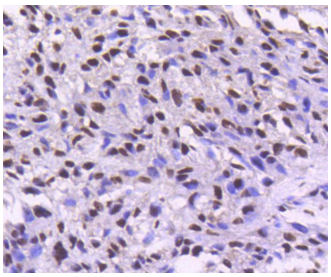
Applications

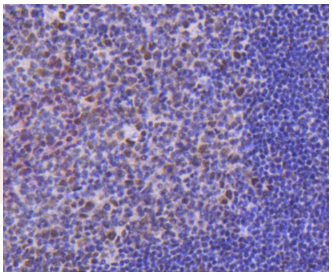
Verified Activity:

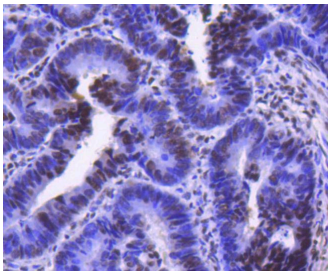
1. Western blot analysis of Cdk9 on different lysates using anti-Cdk9 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: Jurkat, Lane 3: A431.
2. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cdk9 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.
8. 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.

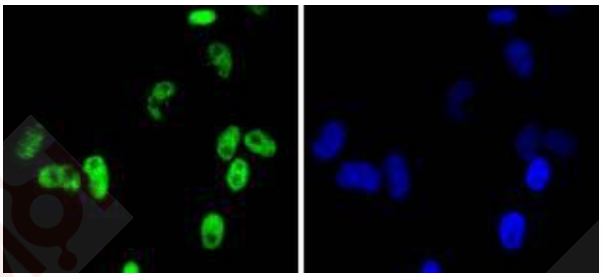


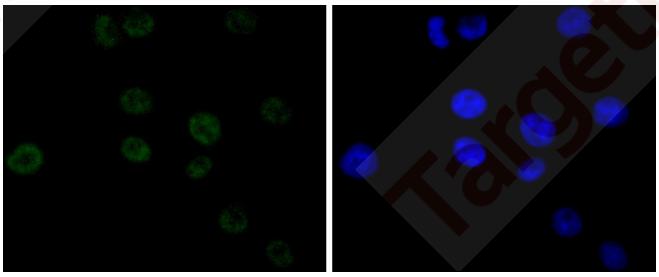


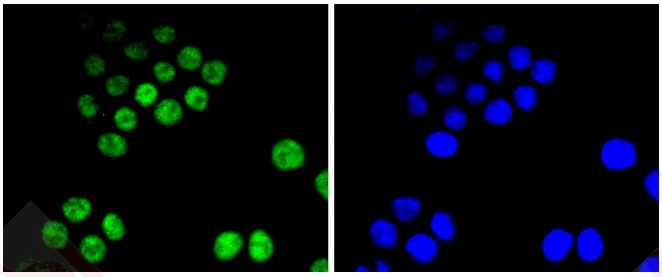












Application: ICC/IF,IHC,IP,WB

Recommended: WB: 1:1000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P50750

Synonyms: Cdk9;C-2K;CDC2L4;Cell division cycle 2-like protein kinase 4;CTK1;Cell division protein kinase 9;Serine/threonine-protein kinase PITALRE;Cyclin dependent kinase 9;TAK;CDK9_HUMAN;CDC2 related kinase;Tat associated kinase complex catalytic subunit;PITALRE;Cyclin-dependent kinase 9;CDK 9

Research Background

A family of proteins designated cyclin dependent kinases (Cdks) are critical regulators of cell cycle progression. Cdk family members, including Cdc2 p34, Cdk1?C9, PISSLRE, KKIALRE, PITSLRE, and PCTAIRE 1?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?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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481