

### [ Primary Antibody ]

## Cdk9 Recombinant Rabbit mAb



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## — DATASHEET

**Host:** Rabbit

**Clonality:** Recombinant

**GeneID:** 1025

**Target:** Cdk9

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin tightly associates with CDK9 kinase, and was found to be a major subunit of the transcription elongation factor p-TEFb. The kinase complex containing this cyclin and the elongation factor can interact with, and act as a cofactor of human immunodeficiency virus type 1 (HIV-1) Tat protein, and was shown to be both necessary and sufficient for full activation of viral transcription. This cyclin and its kinase partner were also found to be involved in the phosphorylation and regulation of the carboxy-terminal domain (CTD) of the largest RNA polymerase II subunit.

**Isotype:** IgG

**CloneNo.:** 8C3

**SWISS:** P50750

**Applications: WB** (1:500-2000)

**IHC-P** (1:100-200)

**IHC-F (1:100-200)**

**IF (1:100-200)**

**Flow-Cyt** (1:50-100)

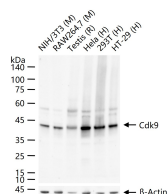
**ICC/IF (1:50-200)**

**Reactivity:** Human, Mouse, Rat

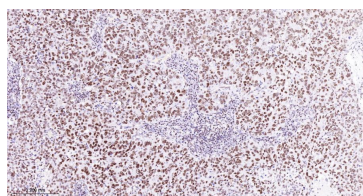
**Predicted MW.:** 43 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

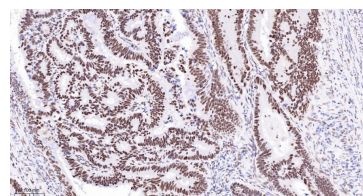
## — VALIDATION IMAGES



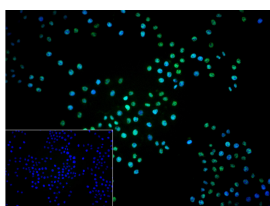
25 ug total protein per lane of various lysates (see on figure) probed with Cdk9 monoclonal antibody, unconjugated (bsm-52033R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Cdk9 Monoclonal Antibody, Unconjugated (bsm-52033R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Cdk9 Monoclonal Antibody, Unconjugated (bsm-52033R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (CDK9) monoclonal Antibody, unconjugated (bsm-52033R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.