CDK9

Mouse monoclonal Antibody

#54054

Catalog Number: 54054
Amount: 100μg/100μl
Swiss-Prot No. :P50750
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human CDK9 protein fragments expressed in E.coli
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of CDK9 and does not corss-react with related proteins
Reactivity: Human
Applications:
Predicted MW: 43kd WB:1:500-2000 IHC:1:200-1000

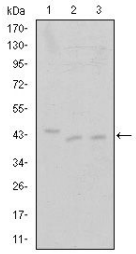

Figure 1: Western blot analysis using CDK9 mouse mAb against Jurkat (1), A431 (2) and HEK293 (3) cell lysate.

Background: The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS.