SANTA CRUZ BIOTECHNOLOGY, INC.

Cdk8 (326-464): sc-4410 WB

BACKGROUND

Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Another family of proteins, Cdk inhibitors, also plays a role in regulating cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2, Cdk3, Cdk4, Cdk5, Cdk6, Cdk7, Cdk8, PCTAIRE-1, PCTAIRE-2, PCTAIRE-3, PITALRE and PITSLRE. Large complexes containing Cdk8, cyclin C and the large subunit of RNA polymerase II have been identified. Cdk8 is thought to regulate RNA polymerase II function in conjunction with cyclin C. Cdk8 has been demonstrated to function as a transcriptional activator when fused to the DNA binding domain of GAL4.

REFERENCES

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SOURCE

Cdk8 (326-464) is expressed in *E. coli* as a 42 kDa tagged fusion protein corresponding to amino acids 326-464 of Cdk8 of human origin.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

PRODUCT

Cdk8 (326-464) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Cdk8 (326-464) is suitable Western blotting control for sc-1521, sc-5612 and sc-13155.

RESEARCH USE

For research use only, not for use in diagnostic procedures.