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CSNK1A1L (h3): 293T Lysate: sc-158403

BACKGROUND

Casein kinase I (also designated CKI) and casein kinase II (CKII) compose a family of serine/threonine protein kinases which are present in all eukaryotes examined to date. Casein kinase I family members, which include casein kinase I α , I γ , I δ and I ϵ , have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair, membrane trafficking, circadian rhythm, cell cycle progression, chromosome segregation, apoptosis and cellular differentiation. Casein kinase I isoform α -like (CSNK1A1L) is a 337 amino acid protein that shares a high degree of sequence similarity with the α isoform of casein kinase 1. CSNK1A1L resides in the cytoplasm and participates in the Wnt signaling pathway. By utilizing ATP within its protein kinase domain, CSNK1A1L phosphorylates a large number of proteins.

REFERENCES

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5. Knippschild, U., Wolff, S., Giamas, G., Brockschmidt, C., Wittau, M., Würfl, P.U., Eismann, T. and Stöter, M. 2005. The role of the casein kinase 1 (CK1) family in different signaling pathways linked to cancer development. *Onkologie* 28: 508-514.

CHROMOSOMAL LOCATION

Genetic locus: CSNK1A1L (human) mapping to 13q13.3.

PRODUCT

CSNK1A1L (h3): 293T Lysate represents a lysate of human CSNK1A1L transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

CSNK1A1L (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive CSNK1A1L antibodies.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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