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MINK1 (h3): 293T Lysate: sc-171838

BACKGROUND

MINK1 (misshapen-like kinase 1, mitogen-activated protein kinase kinase kinase kinase 6, GCK family kinase MINK) is a 1,332 amino acid protein encoded by the human gene MINK1. MINK1 belongs to the protein kinase superfamily, Ste Ser/Thr protein kinase family, Ste20 subfamily and contains one CNH domain and one protein kinase domain. MINK1 acts as a serine/threonine kinase and may play a role in the response to environmental stress. It appears to act upstream of the Jun N-terminal pathway and may play a role in the development of the brain. MINK1 is expressed in all tissues with highest expression found in the brain. Thymocytes that engage MHC-self peptide complexes with intermediate affinity are expanded in the thymus through a process of positive selection, whereas those that bind to these complexes with high affinity are eliminated through a process of negative selection. MINK1 is thought to be an essential component of the signaling element that couples the T cell receptor for negative, but not positive, selection.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MINK1 (human) mapping to 17p13.2.

RESEARCH USE

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

PRODUCT

MINK1 (h3): 293T Lysate represents a lysate of human MINK1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

MINK1 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive MINK1 antibodies. Recommended use: 10-20 μ l per lane.

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

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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