

MINK1 (T-20): sc-54967

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; Mink1 (mouse) mapping to 11 B3.

SOURCE

MINK1 (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MINK1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54967 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MINK1 (T-20) is recommended for detection of MINK1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

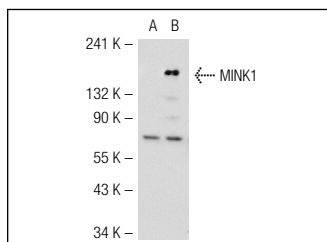
MINK1 (T-20) is also recommended for detection of MINK1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for MINK1 siRNA (h): sc-62616, MINK1 siRNA (m): sc-62617, MINK1 shRNA Plasmid (h): sc-62616-SH, MINK1 shRNA Plasmid (m): sc-62617-SH, MINK1 shRNA (h) Lentiviral Particles: sc-62616-V and MINK1 shRNA (m) Lentiviral Particles: sc-62617-V.

Molecular Weight of MINK1: 150 kDa.

Positive Controls: MINK1 (h3): 293T Lysate: sc-171838.

DATA



MINK1 (T-20): sc-54967. Western blot analysis of MINK1 expression in non-transfected: sc-117752 (A) and human MINK1 transfected: sc-171838 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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