



cytochrome c (1-104): sc-4270 WB

BACKGROUND

Cytochrome c is a well characterized mobile electron transport protein essential to energy conversion in all aerobic organisms. In mammalian cells, this highly conserved protein is normally localized to the mitochondrial intermembrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is translocated from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c and to induce cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic cascade, whereby Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleavage of CPP32.

REFERENCES

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SOURCE

Cytochrome c (1-104) is an 11.4 kDa purified protein corresponding to amino acids 1-104 representing full length cytochrome c of horse origin.

PRODUCT

Cytochrome c (1-104) is purified by bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml of SDS-PAGE loading buffer.

APPLICATIONS

Cytochrome c (1-104) is suitable for Western blotting control for sc-7159, sc-8383, sc-8384 and sc-8385.

STORAGE

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

RESEARCH USE

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