

IN VITRO AND IN VIVO STUDIES ON ANTIPROLIFERATIVE ACTIVITY OF PARKIA JAVANICA

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ABSTRACT

Antiproliferative activity of the plant extract of *Parkia javanica* has been evaluated *in vitro* and *in vivo*. Thirty five to 94% ($p < 0.001$) antiproliferative activity was observed in *in vitro* with different cell lines. Over 99% protection ($p < 0.001$) and increase in survival of cancer cell carrying mice were observed in *in vivo*. Experimental results suggested induction of apoptosis involving mitochondrial pathway.

KEY WORDS: *Parkia javanica*, Antiproliferative activity, CEM/ ADR 5000, EAC/ Dox cells, Cancer, Apoptosis